

- (4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.
- (5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.
- (6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

For emissions above 1 GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

- (8) X axis, Y axis, Z axis are tested, and worse setup X axis is reported.

8.4. Test result

Pass. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits and RSS-Gen section 8.9 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

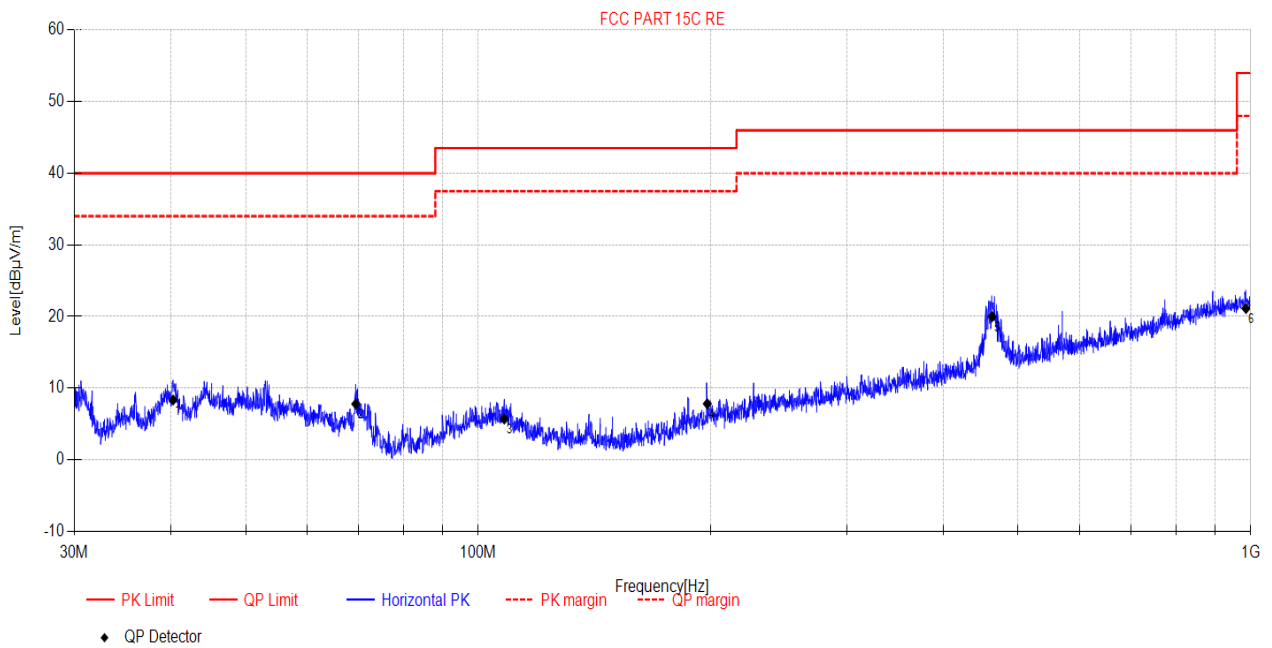
Note2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in Right side GFSK 1M Tx 2480 MHz mode.

Note3: For emission above 1GHz that over the limit are fundamental.

Radiated Emission test (below 1 GHz) TR-4-E-009 Radiated Emission Test Result

Test Date:	2022-11-04	Tested By:	James Gan
EUT:	BLUETOOTH HEADSET	Model Number:	TOUR PRO 2
Test Mode:	Tx mode	Power Supply:	Battery
Condition:	Temp:22°C;Humi:55.1%;Press:100.3kPa	Test Site:	DDT 3# Chamber
File Path:	d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC BELOW 1G\20221104-221259_H		

Memo:



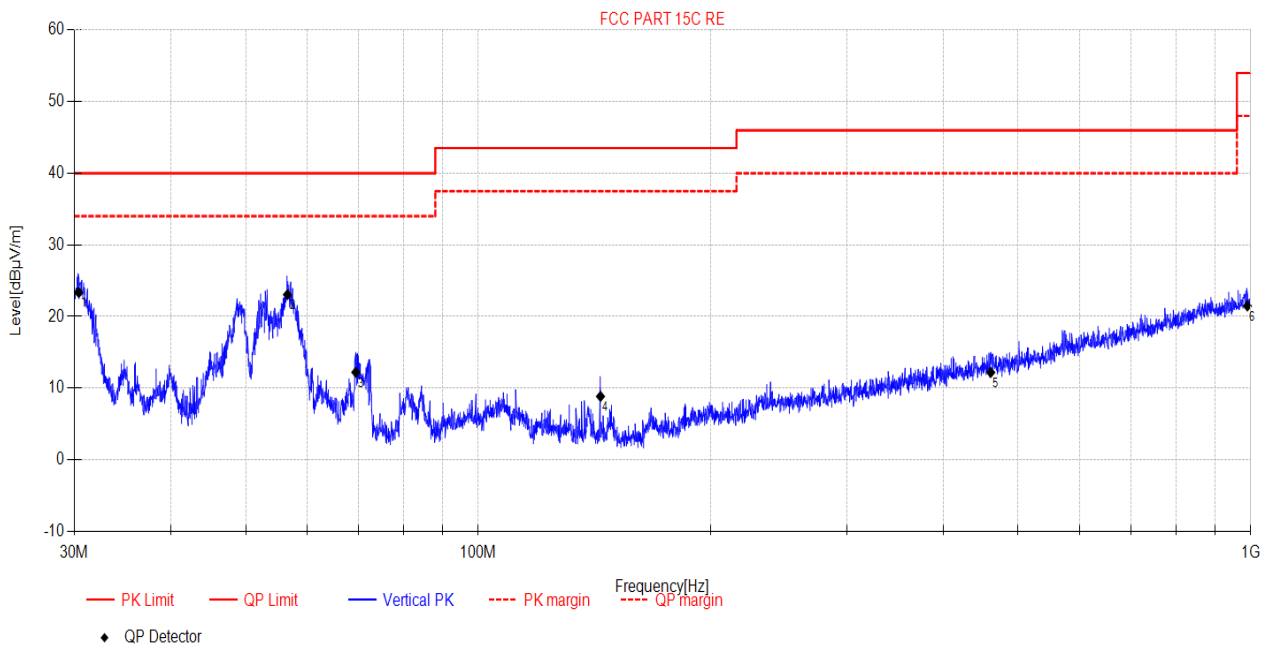
Final Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	40.27	27.75	-19.39	8.36	40.00	31.64	QP	Horizontal
2	69.44	30.33	-22.53	7.80	40.00	32.20	QP	Horizontal
3	108.09	25.92	-20.21	5.71	43.50	37.79	QP	Horizontal
4	197.96	27.66	-19.84	7.82	43.50	35.68	QP	Horizontal
5	462.74	33.25	-13.26	19.99	46.00	26.01	QP	Horizontal
6	986.07	24.9	-3.77	21.13	54.00	32.87	QP	Horizontal

Note: 1. Result Level = Read Level + Factor
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22°C;Humi:55.1%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC BELOW 1G\20221104-221341_V

Memo:



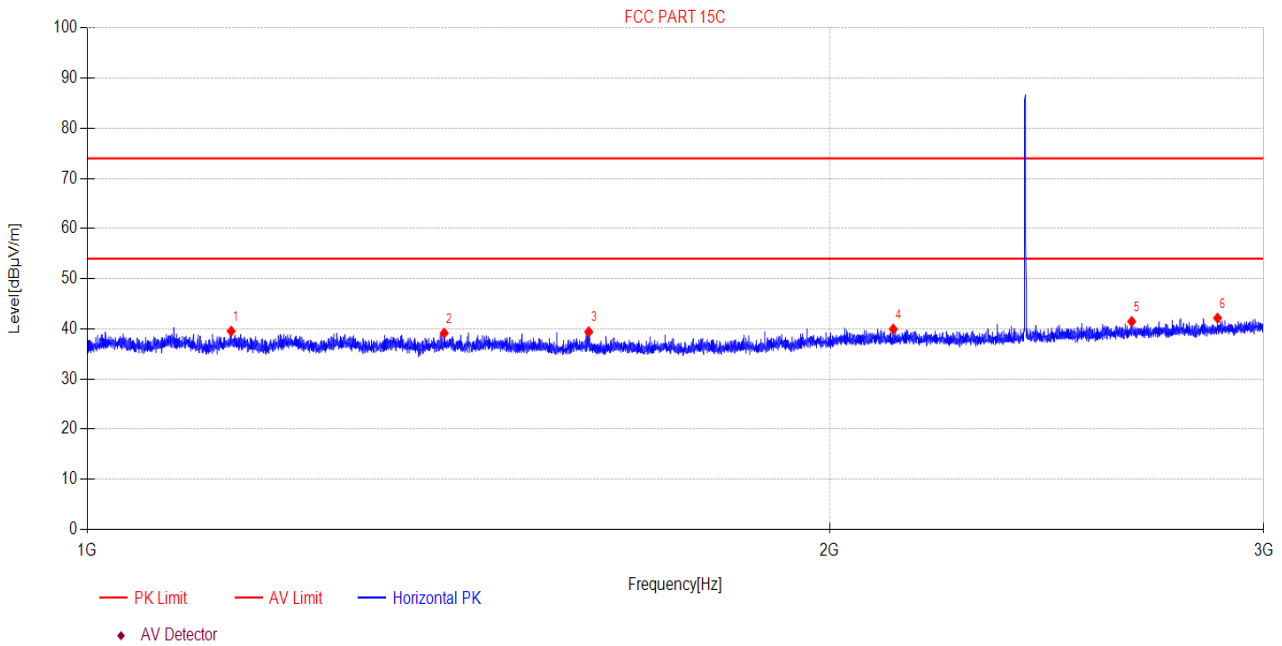
Final Data List								
NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Result [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	30.40	44.79	-21.43	23.36	40.00	16.64	QP	Vertical
2	56.63	41.96	-18.91	23.05	40.00	16.95	QP	Vertical
3	69.44	34.75	-22.53	12.22	40.00	27.78	QP	Vertical
4	143.99	32.11	-23.26	8.85	43.50	34.65	QP	Vertical
5	460.80	25.46	-13.26	12.20	46.00	33.80	QP	Vertical
6	990.23	25.11	-3.63	21.48	54.00	32.52	QP	Vertical

Note: 1. Result Level = Read Level + Factor
 2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
 3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Radiated Emission test (above 1 GHz)

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\13
Memo: BLE 1M 2402

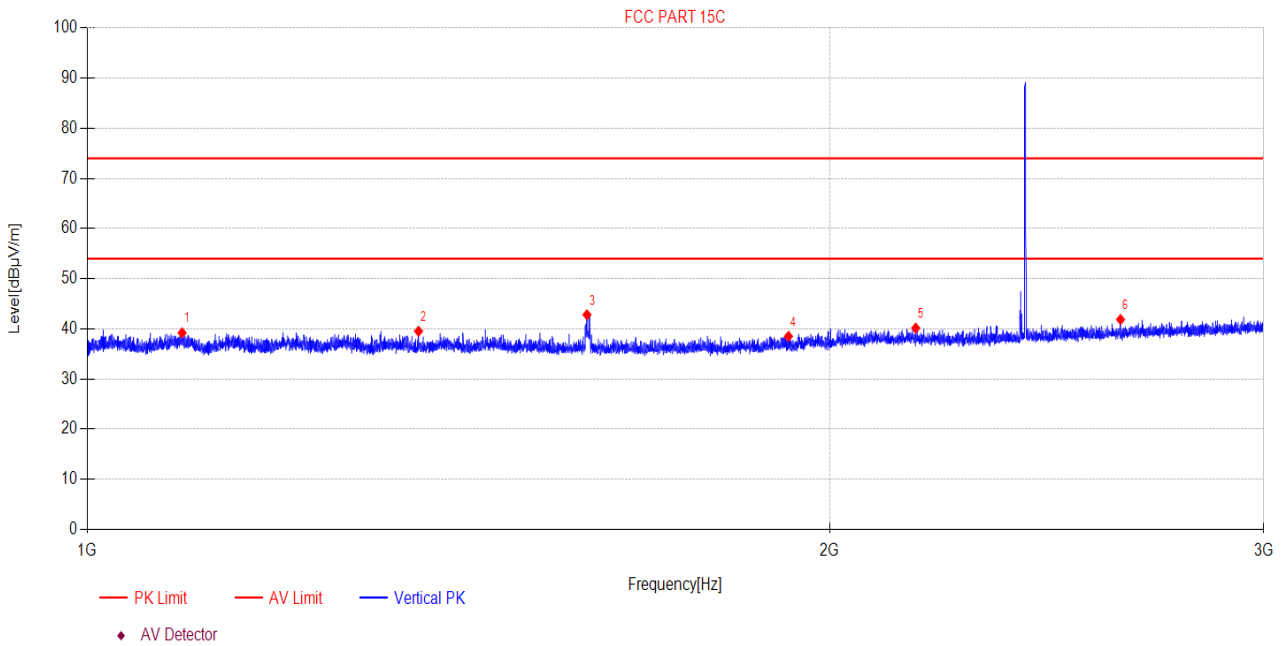


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1143.79	50.43	-10.89	39.54	74.00	34.46	PK	Horizontal
2	1395.55	50.25	-11.11	39.14	74.00	34.86	PK	Horizontal
3	1597.26	50.91	-11.49	39.42	74.00	34.58	PK	Horizontal
4	2122.71	50.04	-10.09	39.95	74.00	34.05	PK	Horizontal
5	2652.12	50.44	-8.96	41.48	74.00	32.52	PK	Horizontal
6	2873.56	50.48	-8.33	42.15	74.00	31.85	PK	Horizontal

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\14
Memo: BLE 1M 2402



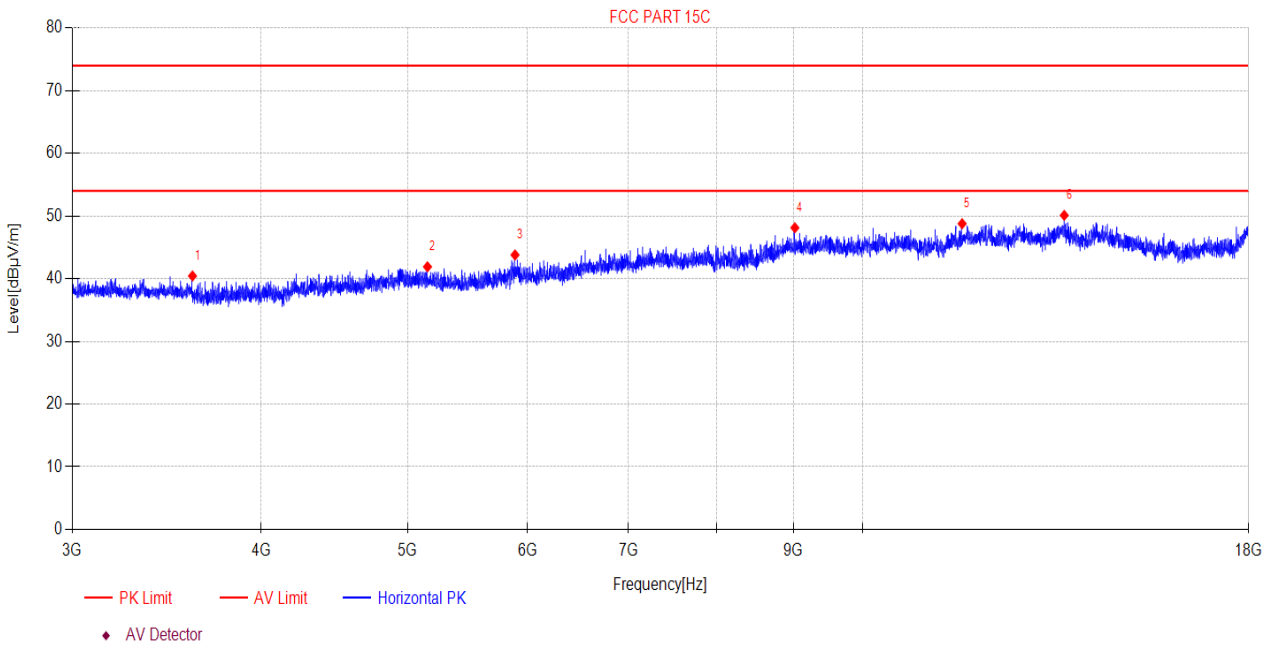
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1092.58	50.14	-10.94	39.20	74.00	34.80	PK	Vertical
2	1362.52	50.61	-11.08	39.53	74.00	34.47	PK	Vertical
3	1594.63	54.30	-11.49	42.81	74.00	31.19	PK	Vertical
4	1924.79	49.64	-11.13	38.51	74.00	35.49	PK	Vertical
5	2167.72	50.18	-10.02	40.16	74.00	33.84	PK	Vertical
6	2624.59	50.87	-9.01	41.86	74.00	32.14	PK	Vertical

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\15
Memo: BLE 1M 2402

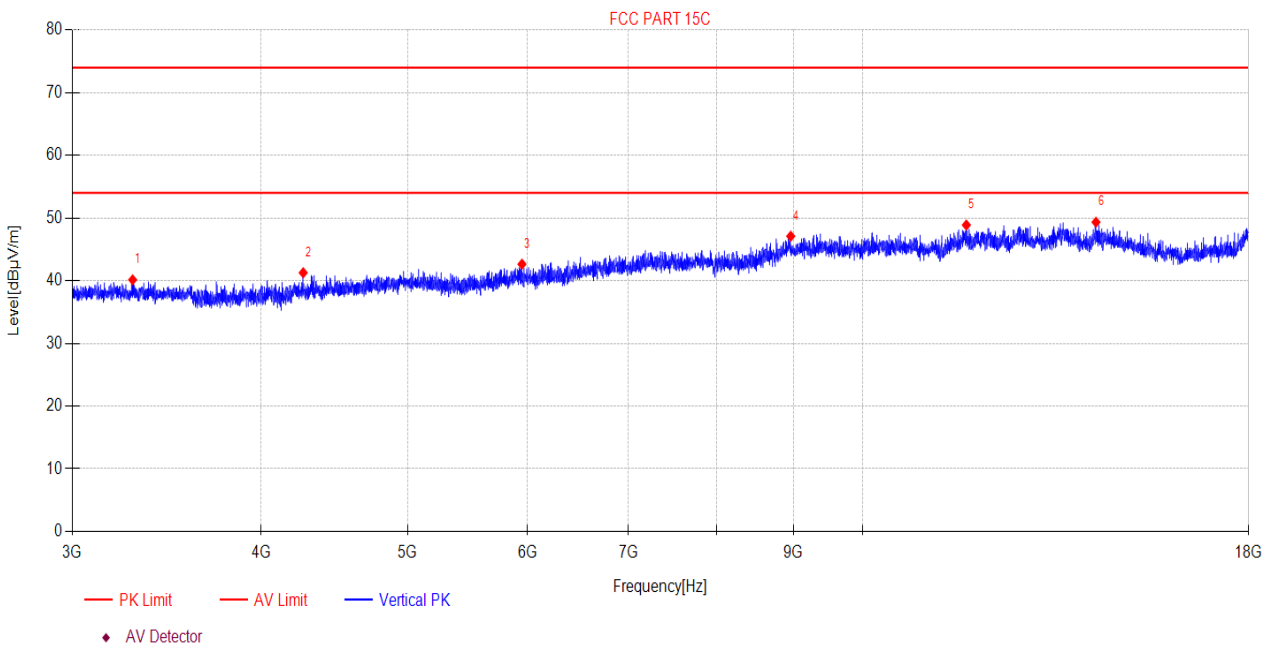


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3602.80	48.69	-8.25	40.44	74.00	33.56	PK	Horizontal
2	5153.47	46.60	-4.70	41.90	74.00	32.10	PK	Horizontal
3	5888.28	47.09	-3.30	43.79	74.00	30.21	PK	Horizontal
4	9017.62	45.23	2.90	48.13	74.00	25.87	PK	Horizontal
5	11634.13	44.55	4.22	48.77	74.00	25.23	PK	Horizontal
6	13591.60	44.34	5.77	50.11	74.00	23.89	PK	Horizontal

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\16
Memo: BLE 1M 2402



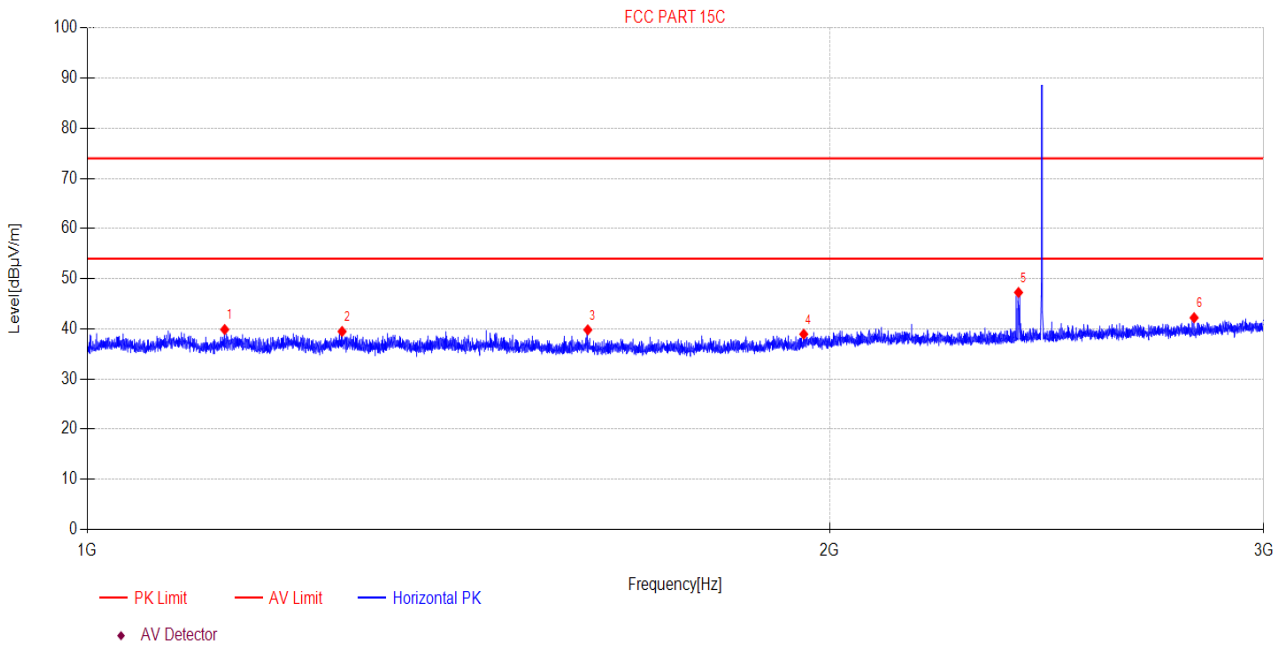
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3288.79	48.35	-8.20	40.15	74.00	33.85	PK	Vertical
2	4264.39	48.08	-6.81	41.27	74.00	32.73	PK	Vertical
3	5950.85	45.79	-3.15	42.64	74.00	31.36	PK	Vertical
4	8961.25	44.25	2.85	47.10	74.00	26.90	PK	Vertical
5	11709.41	44.58	4.30	48.88	74.00	25.12	PK	Vertical
6	14265.22	43.14	6.20	49.34	74.00	24.66	PK	Vertical

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\27
Memo: BLE 1M 2440



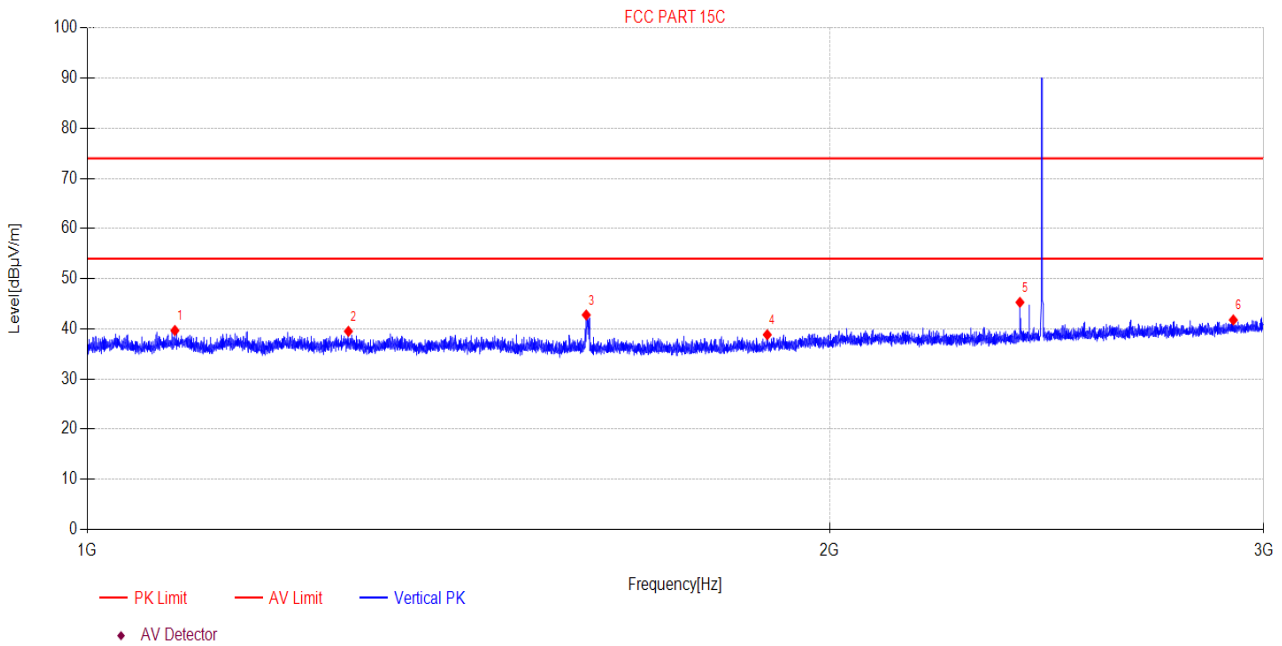
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1136.90	50.79	-10.92	39.87	74.00	34.13	PK	Horizontal
2	1268.63	50.42	-10.94	39.48	74.00	34.52	PK	Horizontal
3	1595.86	51.30	-11.49	39.81	74.00	34.19	PK	Horizontal
4	1952.48	49.94	-10.99	38.95	74.00	35.05	PK	Horizontal
5	2386.16	56.99	-9.73	47.26	74.00	26.74	PK	Horizontal
6	2811.42	50.81	-8.59	42.22	74.00	31.78	PK	Horizontal

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\28
Memo: BLE 1M 2440



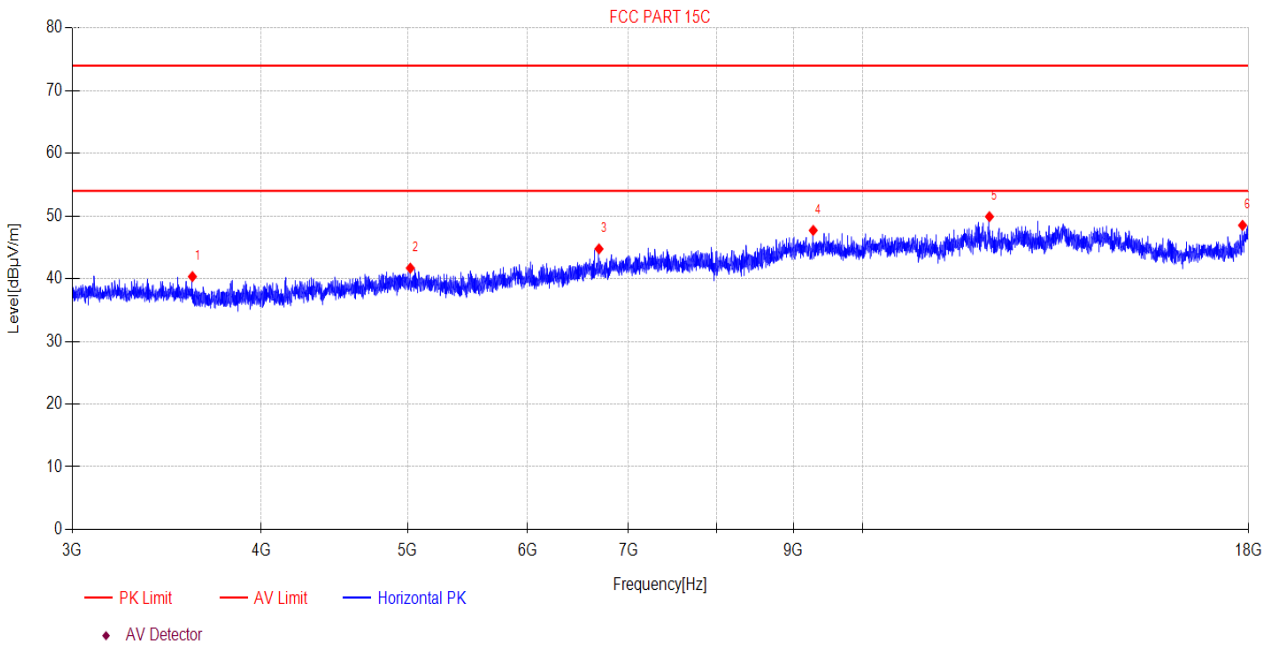
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1085.28	50.61	-10.93	39.68	74.00	34.32	PK	Vertical
2	1276.18	50.47	-10.96	39.51	74.00	34.49	PK	Vertical
3	1593.58	54.26	-11.49	42.77	74.00	31.23	PK	Vertical
4	1887.11	50.16	-11.33	38.83	74.00	35.17	PK	Vertical
5	2389.31	55.01	-9.72	45.29	74.00	28.71	PK	Vertical
6	2916.17	49.94	-8.16	41.78	74.00	32.22	PK	Vertical

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\17
Memo: BLE 1M 2440



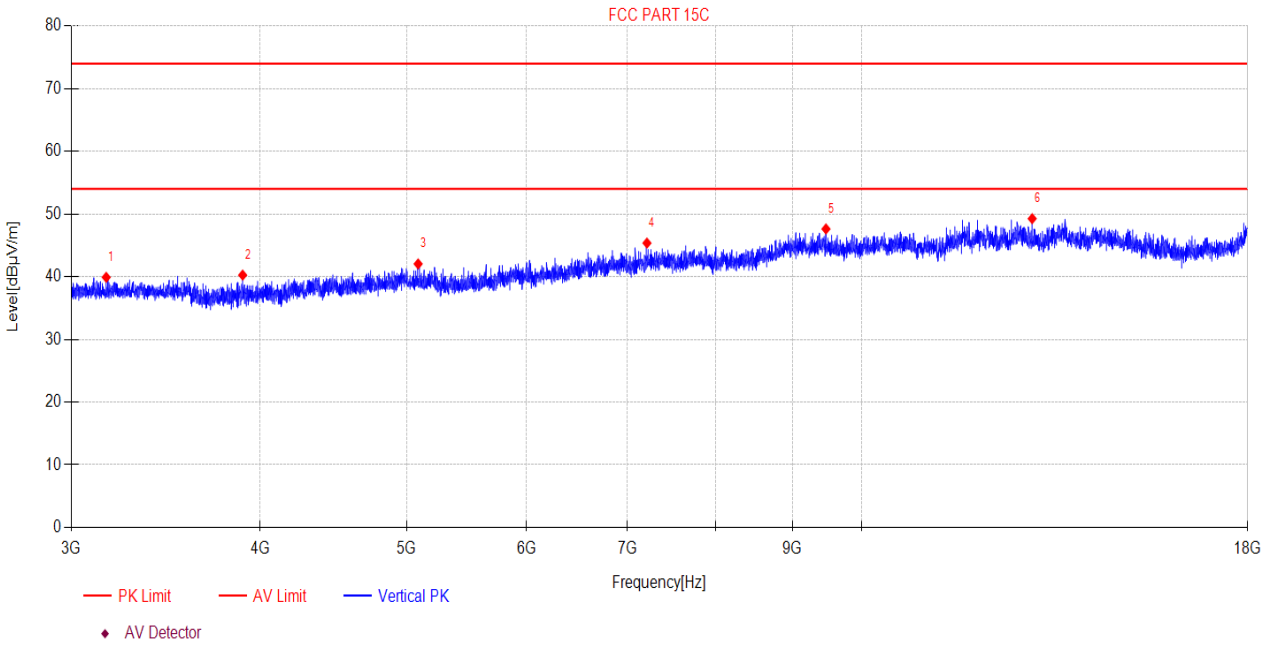
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3602.16	48.60	-8.26	40.34	74.00	33.66	PK	Horizontal
2	5020.41	46.53	-4.84	41.69	74.00	32.31	PK	Horizontal
3	6691.79	46.28	-1.52	44.76	74.00	29.24	PK	Horizontal
4	9273.20	44.85	2.86	47.71	74.00	26.29	PK	Horizontal
5	12127.89	44.81	5.09	49.90	74.00	24.10	PK	Horizontal
6	17833.09	40.93	7.59	48.52	74.00	25.48	PK	Horizontal

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\18
Memo: BLE 1M 2440

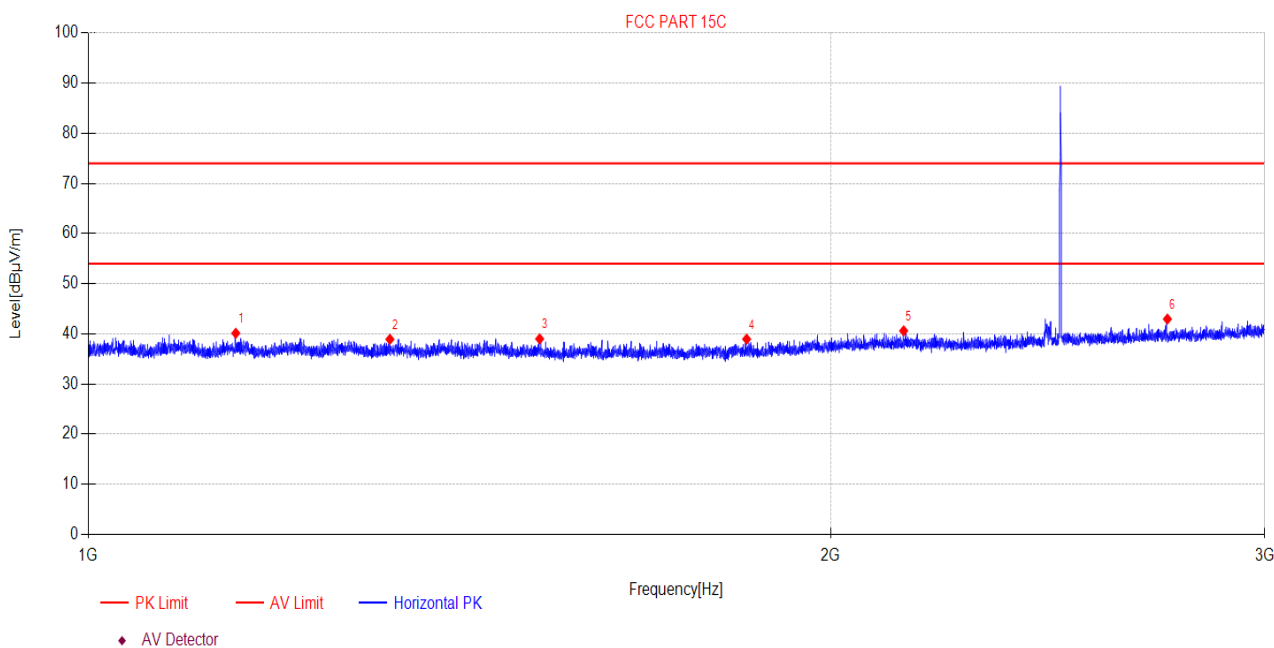


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3163.95	48.05	-8.14	39.91	74.00	34.09	PK	Vertical
2	3894.81	47.88	-7.62	40.26	74.00	33.74	PK	Vertical
3	5088.33	46.78	-4.74	42.04	74.00	31.96	PK	Vertical
4	7209.59	46.07	-0.70	45.37	74.00	28.63	PK	Vertical
5	9469.63	44.95	2.67	47.62	74.00	26.38	PK	Vertical
6	12963.71	44.16	5.10	49.26	74.00	24.74	PK	Vertical

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\29
Memo: BLE 1M 2480



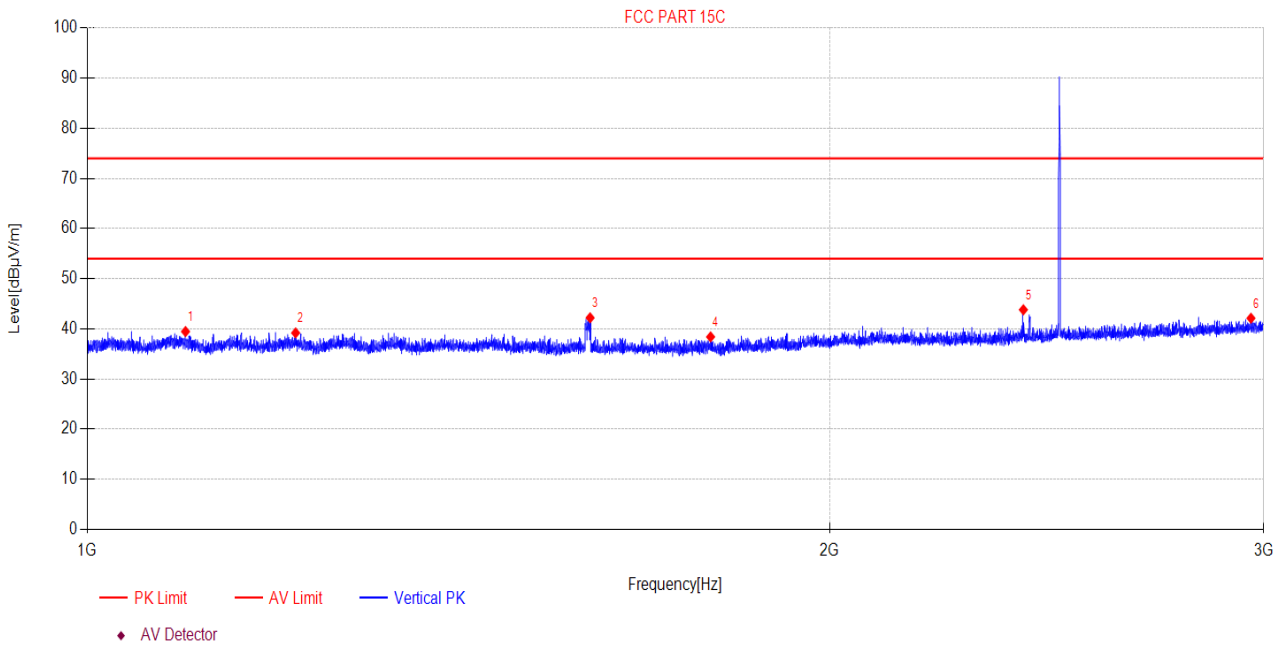
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1147.69	51.02	-10.89	40.13	74.00	33.87	PK	Horizontal
2	1325.32	49.97	-11.05	38.92	74.00	35.08	PK	Horizontal
3	1524.24	50.38	-11.38	39.00	74.00	35.00	PK	Horizontal
4	1849.35	50.47	-11.52	38.95	74.00	35.05	PK	Horizontal
5	2141.45	50.66	-10.05	40.61	74.00	33.39	PK	Horizontal
6	2739.47	51.73	-8.77	42.96	74.00	31.04	PK	Horizontal

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\30
Memo: BLE 1M 2480



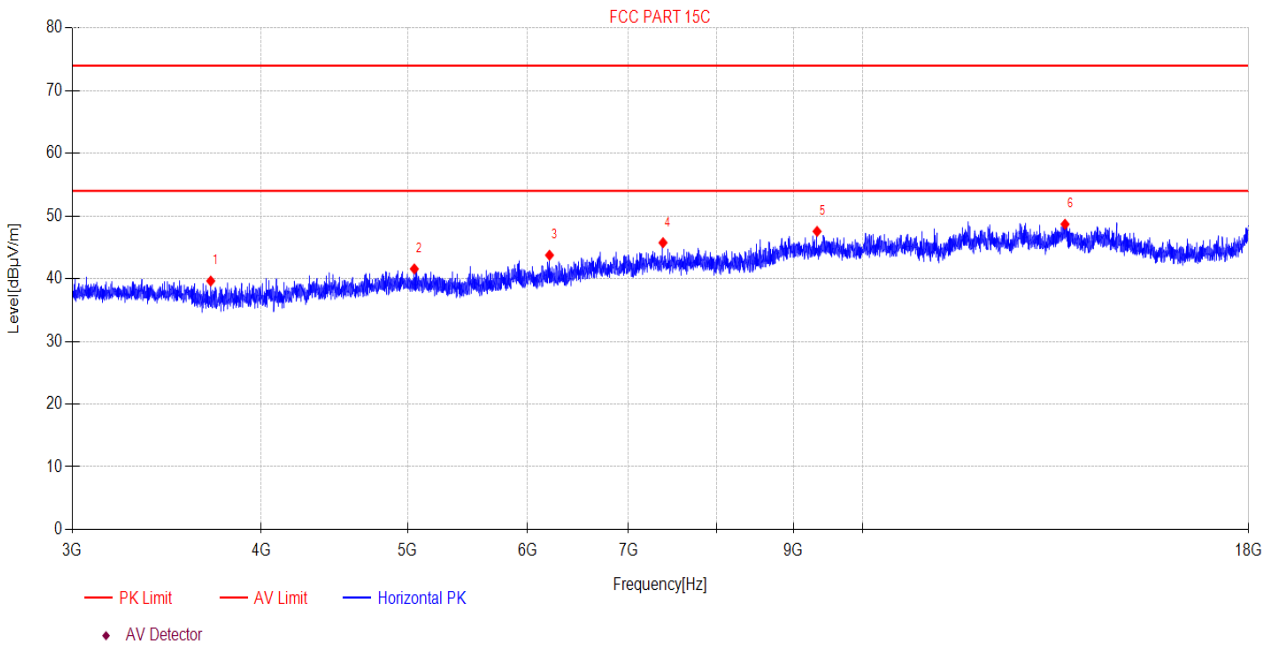
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1096.06	50.41	-10.94	39.47	74.00	34.53	PK	Vertical
2	1214.76	50.11	-10.92	39.19	74.00	34.81	PK	Vertical
3	1599.37	53.70	-11.49	42.21	74.00	31.79	PK	Vertical
4	1789.79	49.99	-11.59	38.40	74.00	35.60	PK	Vertical
5	2396.93	53.52	-9.71	43.81	74.00	30.19	PK	Vertical
6	2964.62	50.07	-7.95	42.12	74.00	31.88	PK	Vertical

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\19
Memo: BLE 1M 2480

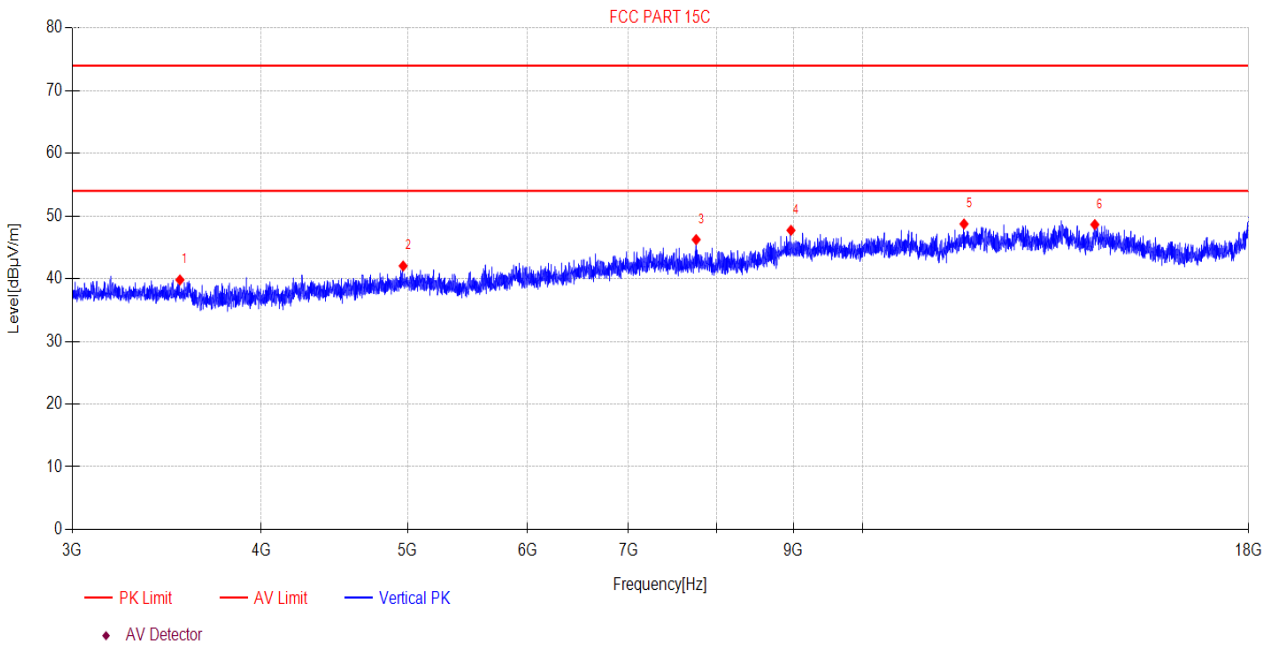


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3704.25	47.63	-8.00	39.63	74.00	34.37	PK	Horizontal
2	5051.09	46.32	-4.76	41.56	74.00	32.44	PK	Horizontal
3	6205.63	46.68	-2.93	43.75	74.00	30.25	PK	Horizontal
4	7376.83	46.42	-0.68	45.74	74.00	28.26	PK	Horizontal
5	9328.19	44.74	2.81	47.55	74.00	26.45	PK	Horizontal
6	13608.66	42.91	5.78	48.69	74.00	25.31	PK	Horizontal

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\20
Memo: BLE 1M 2480

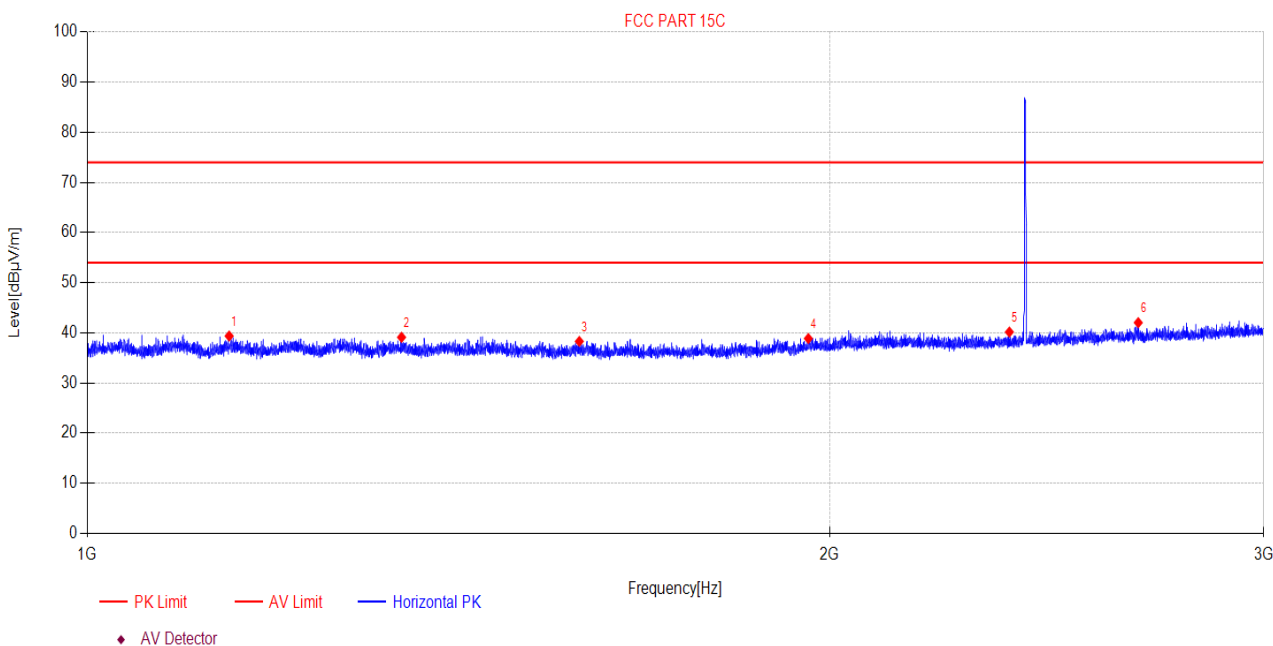


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3534.39	48.17	-8.36	39.81	74.00	34.19	PK	Vertical
2	4965.85	46.94	-4.91	42.03	74.00	31.97	PK	Vertical
3	7759.10	46.74	-0.50	46.24	74.00	27.76	PK	Vertical
4	8964.46	44.86	2.86	47.72	74.00	26.28	PK	Vertical
5	11667.52	44.48	4.25	48.73	74.00	25.27	PK	Vertical
6	14239.69	42.44	6.19	48.63	74.00	25.37	PK	Vertical

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\31
Memo: BLE 2M 2402

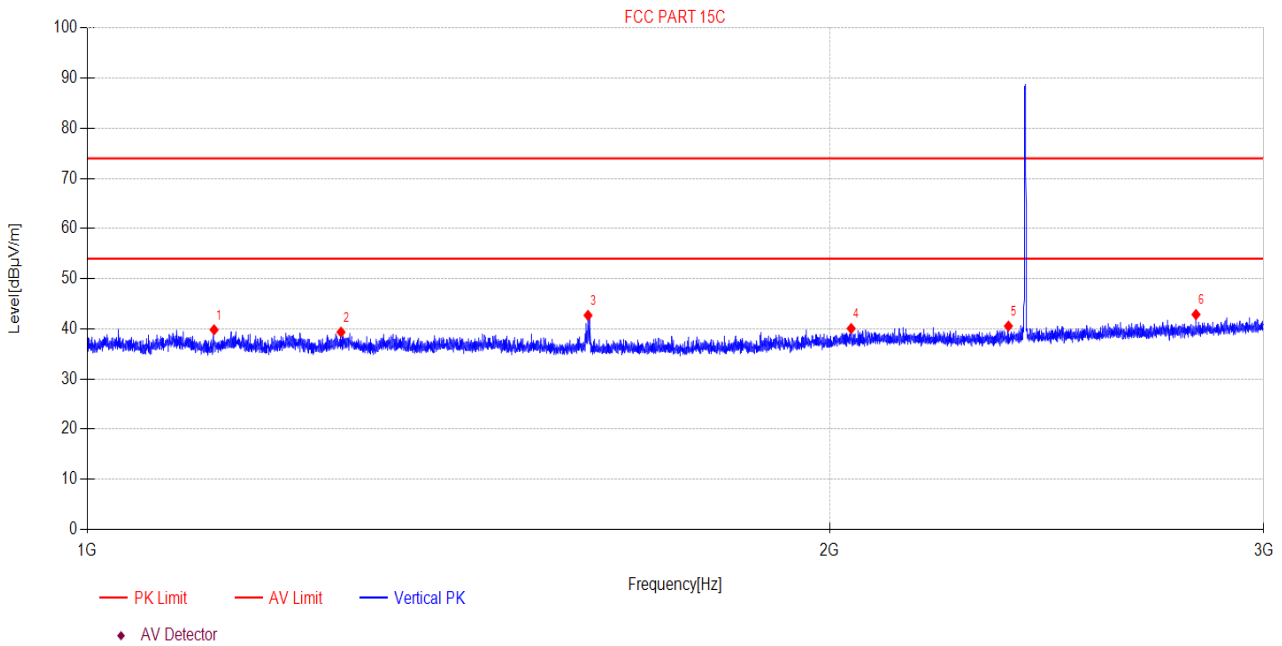


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1141.66	50.27	-10.90	39.37	74.00	34.63	PK	Horizontal
2	1341.14	50.19	-11.07	39.12	74.00	34.88	PK	Horizontal
3	1583.29	49.78	-11.48	38.30	74.00	35.70	PK	Horizontal
4	1960.86	49.81	-10.93	38.88	74.00	35.12	PK	Horizontal
5	2365.80	49.94	-9.77	40.17	74.00	33.83	PK	Horizontal
6	2668.49	50.96	-8.92	42.04	74.00	31.96	PK	Horizontal

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\32
Memo: BLE 2M 2402

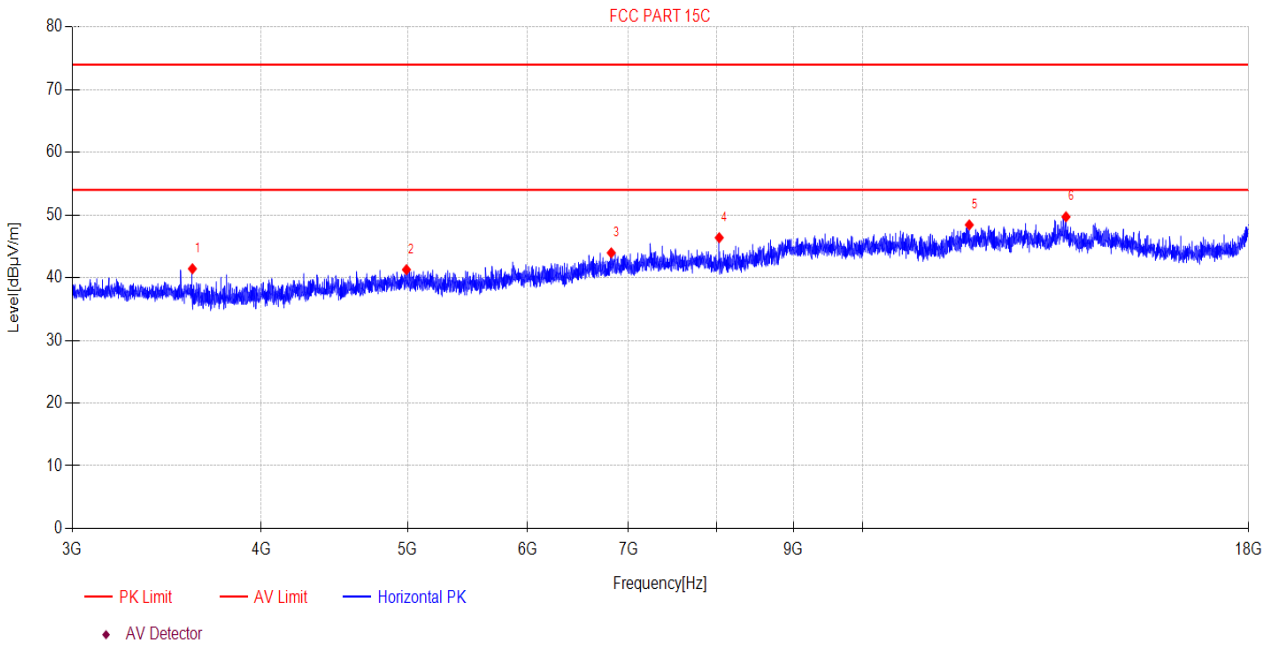


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1125.72	50.74	-10.92	39.82	74.00	34.18	PK	Vertical
2	1267.37	50.28	-10.93	39.35	74.00	34.65	PK	Vertical
3	1596.21	54.18	-11.49	42.69	74.00	31.31	PK	Vertical
4	2040.85	50.47	-10.40	40.07	74.00	33.93	PK	Vertical
5	2363.72	50.33	-9.77	40.56	74.00	33.44	PK	Vertical
6	2816.37	51.43	-8.57	42.86	74.00	31.14	PK	Vertical

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\21
Memo: BLE 2M 2402



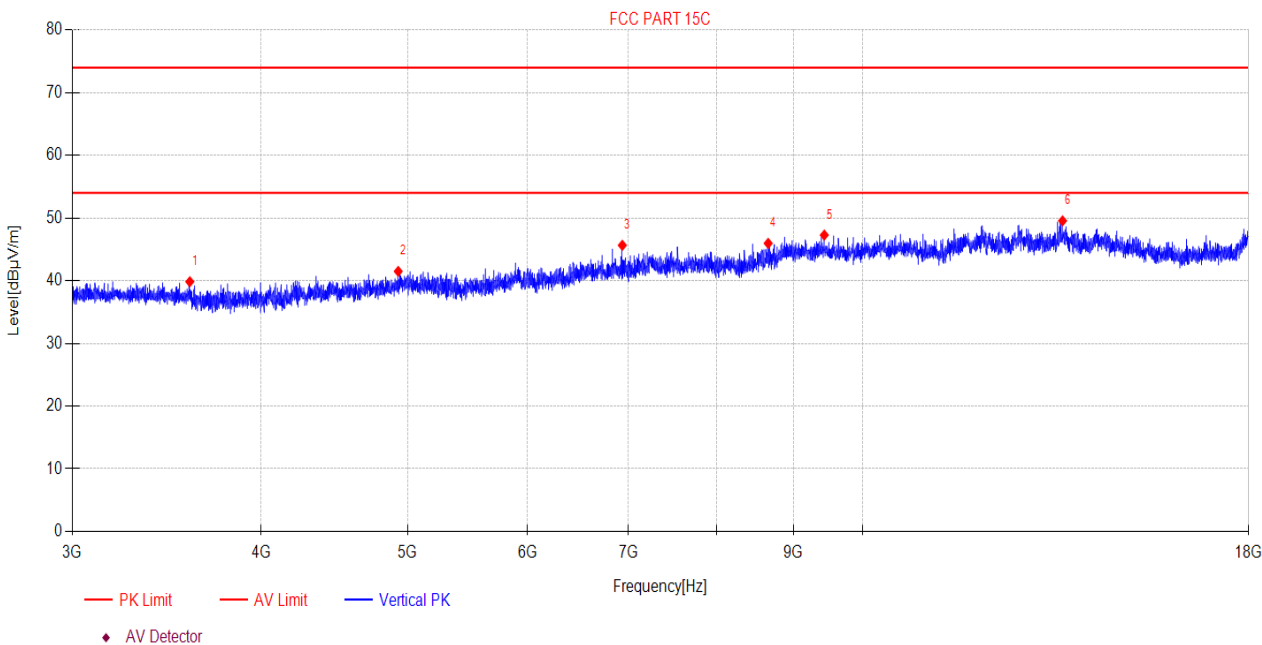
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3602.16	49.69	-8.26	41.43	74.00	32.57	PK	Horizontal
2	4990.82	46.17	-4.89	41.28	74.00	32.72	PK	Horizontal
3	6817.65	45.33	-1.37	43.96	74.00	30.04	PK	Horizontal
4	8036.40	46.40	-0.02	46.38	74.00	27.62	PK	Horizontal
5	11761.97	44.03	4.40	48.43	74.00	25.57	PK	Horizontal
6	13628.17	43.93	5.79	49.72	74.00	24.28	PK	Horizontal

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\22
Memo: BLE 2M 2402



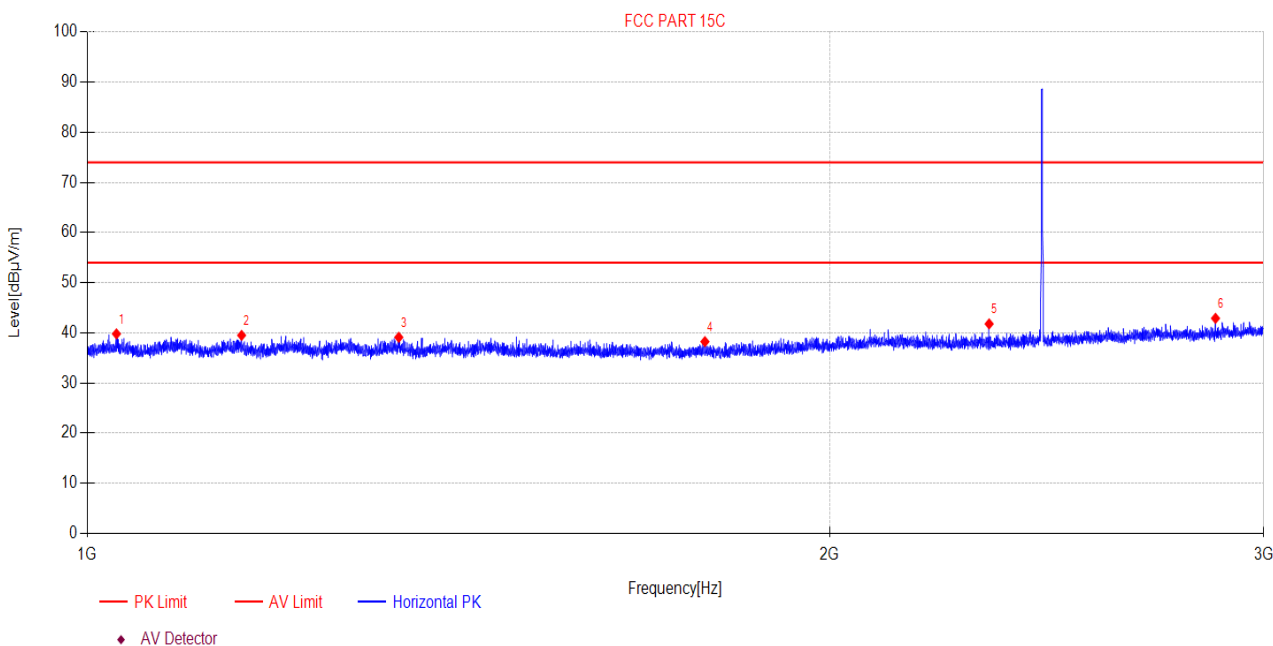
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3587.99	48.11	-8.27	39.84	74.00	34.16	PK	Vertical
2	4928.62	46.50	-5.01	41.49	74.00	32.51	PK	Vertical
3	6933.43	46.90	-1.25	45.65	74.00	28.35	PK	Vertical
4	8658.24	44.04	1.92	45.96	74.00	28.04	PK	Vertical
5	9430.69	44.58	2.70	47.28	74.00	26.72	PK	Vertical
6	13557.55	43.80	5.75	49.55	74.00	24.45	PK	Vertical

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\33
Memo: BLE 2M 2440



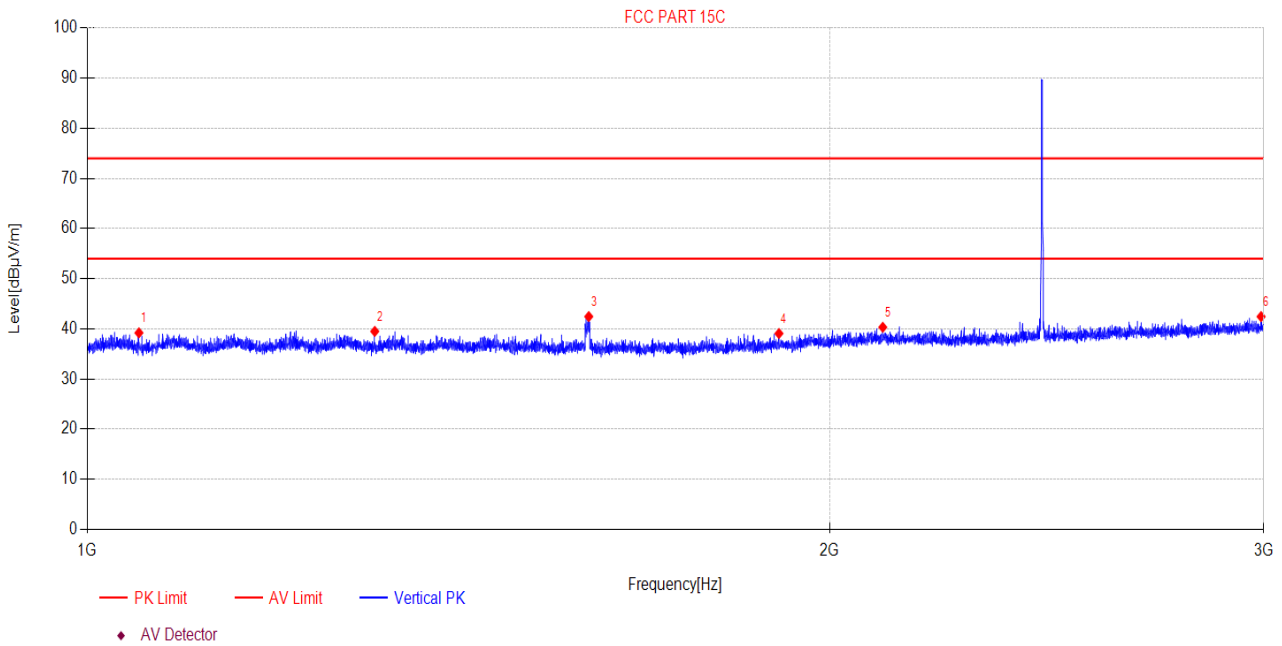
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1027.62	50.73	-10.93	39.80	74.00	34.20	PK	Horizontal
2	1155.03	50.40	-10.90	39.50	74.00	34.50	PK	Horizontal
3	1337.61	50.18	-11.06	39.12	74.00	34.88	PK	Horizontal
4	1780.37	49.85	-11.60	38.25	74.00	35.75	PK	Horizontal
5	2321.52	51.65	-9.86	41.79	74.00	32.21	PK	Horizontal
6	2868.20	51.25	-8.35	42.90	74.00	31.10	PK	Horizontal

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\34
Memo: BLE 2M 2440

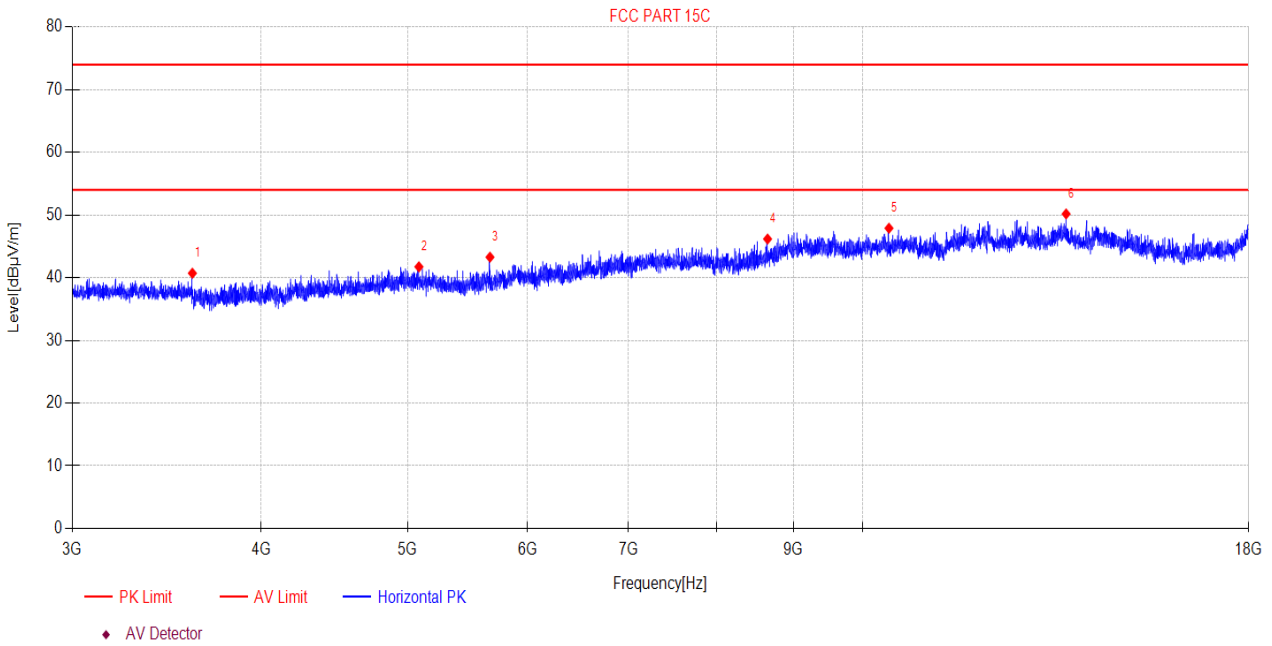


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1049.41	50.11	-10.90	39.21	74.00	34.79	PK	Vertical
2	1307.97	50.53	-11.03	39.50	74.00	34.50	PK	Vertical
3	1597.26	53.94	-11.49	42.45	74.00	31.55	PK	Vertical
4	1907.74	50.29	-11.22	39.07	74.00	34.93	PK	Vertical
5	2102.06	50.46	-10.14	40.32	74.00	33.68	PK	Vertical
6	2992.76	50.28	-7.84	42.44	74.00	31.56	PK	Vertical

- Note:
1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\23
Memo: BLE 2M 2440



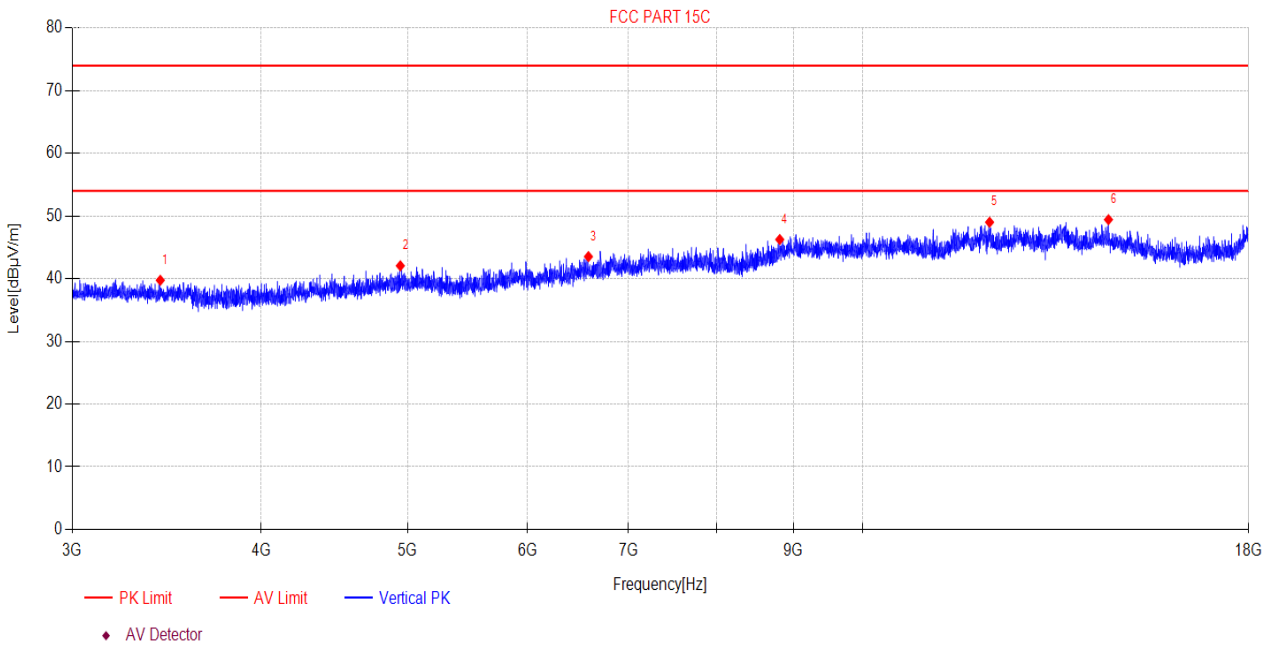
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3602.16	48.98	-8.26	40.72	74.00	33.28	PK	Horizontal
2	5086.51	46.48	-4.74	41.74	74.00	32.26	PK	Horizontal
3	5667.81	47.31	-4.03	43.28	74.00	30.72	PK	Horizontal
4	8650.49	44.29	1.89	46.18	74.00	27.82	PK	Horizontal
5	10407.29	45.20	2.70	47.90	74.00	26.10	PK	Horizontal
6	13630.62	44.38	5.79	50.17	74.00	23.83	PK	Horizontal

Note:

- Level = Reading + Factor.
- If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\24
Memo: BLE 2M 2440



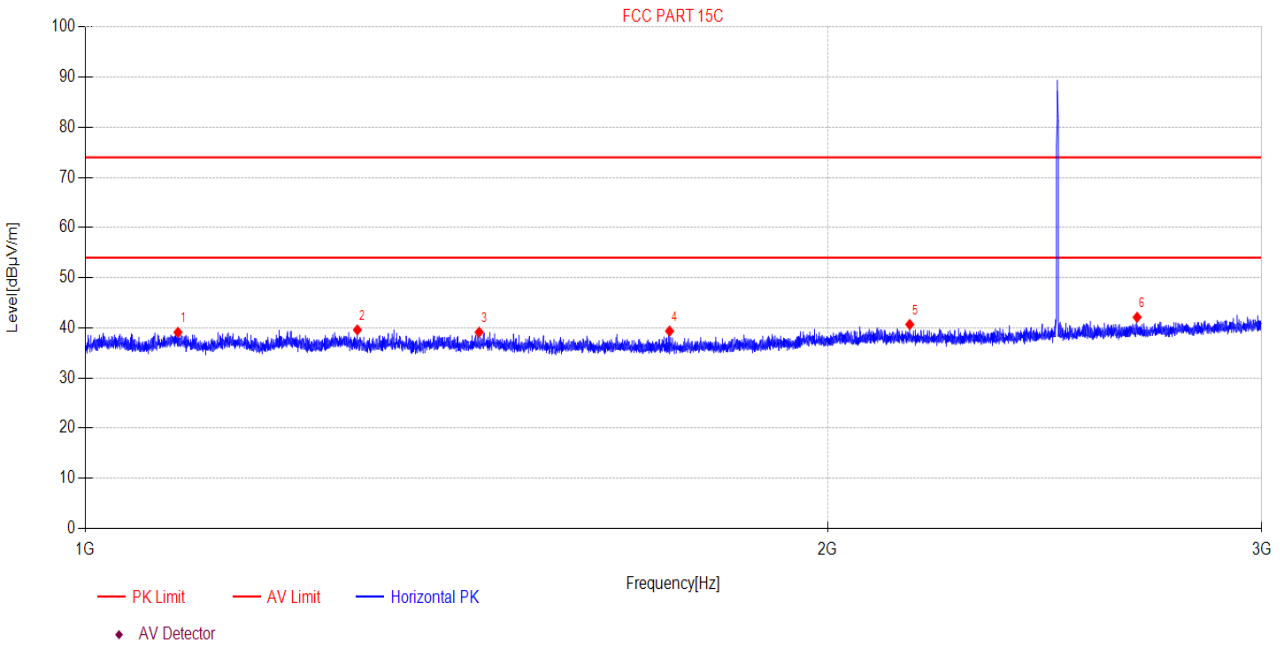
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3430.21	48.13	-8.38	39.75	74.00	34.25	PK	Vertical
2	4944.54	47.00	-4.94	42.06	74.00	31.94	PK	Vertical
3	6584.76	45.35	-1.83	43.52	74.00	30.48	PK	Vertical
4	8811.60	43.85	2.40	46.25	74.00	27.75	PK	Vertical
5	12130.06	43.92	5.09	49.01	74.00	24.99	PK	Vertical
6	14538.72	43.33	6.09	49.42	74.00	24.58	PK	Vertical

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\35
Memo: BLE 2M 2480

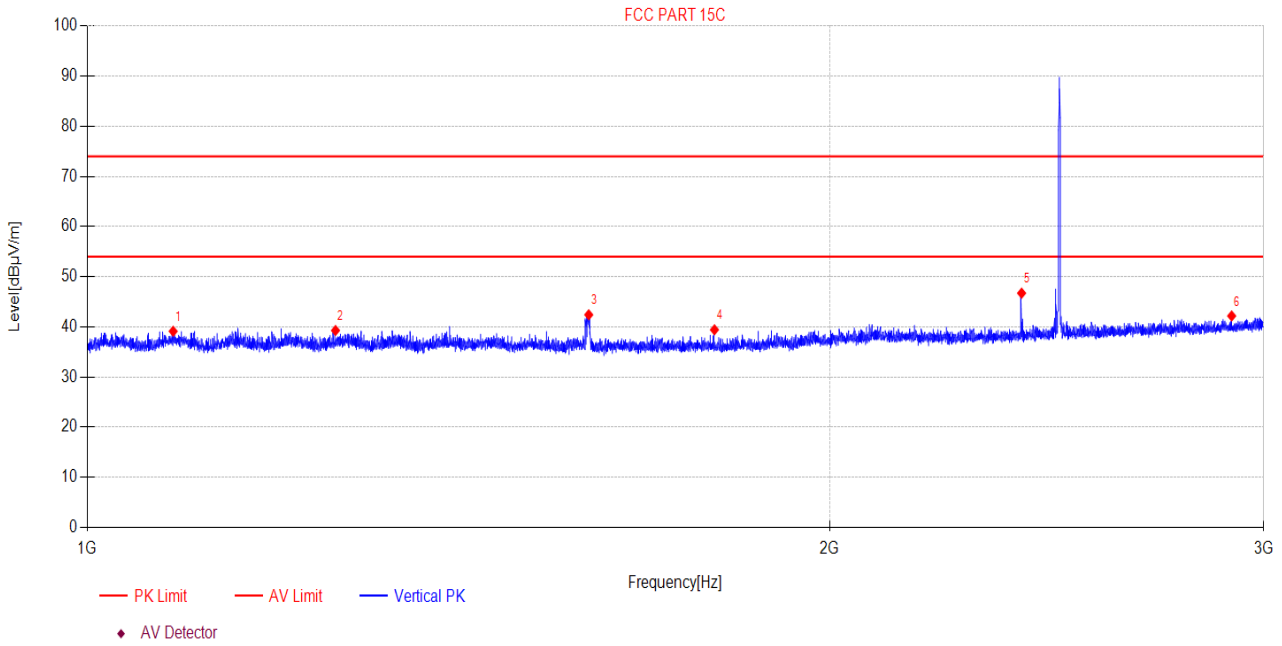


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1090.42	50.05	-10.94	39.11	74.00	34.89	PK	Horizontal
2	1289.28	50.60	-11.00	39.60	74.00	34.40	PK	Horizontal
3	1444.52	50.30	-11.16	39.14	74.00	34.86	PK	Horizontal
4	1725.69	50.97	-11.61	39.36	74.00	34.64	PK	Horizontal
5	2159.64	50.71	-10.03	40.68	74.00	33.32	PK	Horizontal
6	2670.54	51.04	-8.92	42.12	74.00	31.88	PK	Horizontal

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\36
Memo: BLE 2M 2480

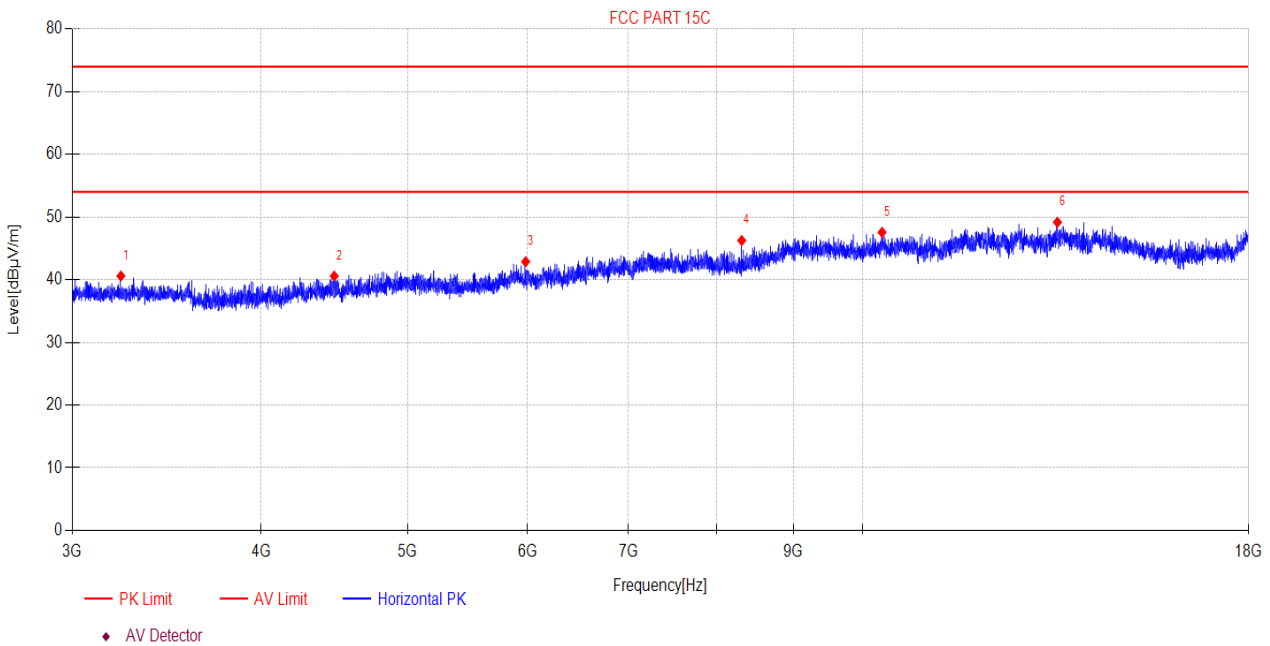


Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	1083.49	50.06	-10.93	39.13	74.00	34.87	PK	Vertical
2	1260.85	50.20	-10.91	39.29	74.00	34.71	PK	Vertical
3	1597.26	53.90	-11.49	42.41	74.00	31.59	PK	Vertical
4	1796.29	51.00	-11.58	39.42	74.00	34.58	PK	Vertical
5	2392.98	56.43	-9.71	46.72	74.00	27.28	PK	Vertical
6	2911.69	50.35	-8.17	42.18	74.00	31.82	PK	Vertical

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\25
Memo: BLE 2M 2480



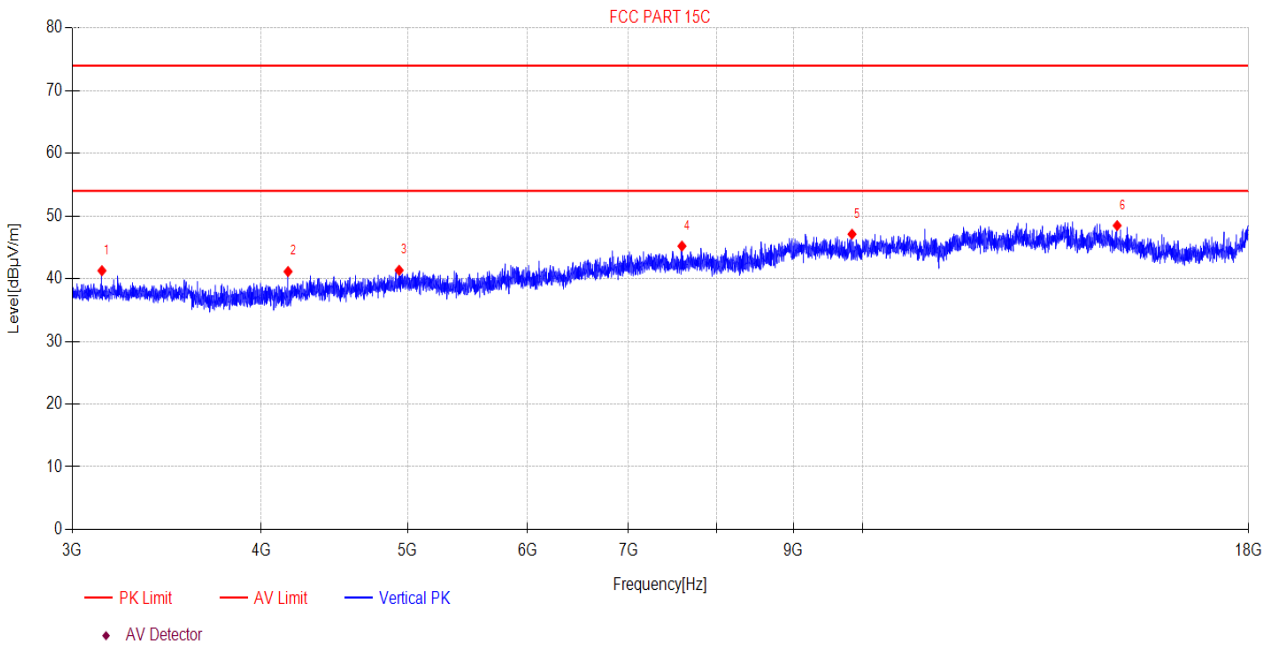
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3230.40	48.77	-8.18	40.59	74.00	33.41	PK	Horizontal
2	4470.93	46.98	-6.40	40.58	74.00	33.42	PK	Horizontal
3	5983.99	46.01	-3.13	42.88	74.00	31.12	PK	Horizontal
4	8316.16	45.58	0.68	46.26	74.00	27.74	PK	Horizontal
5	10297.86	44.91	2.65	47.56	74.00	26.44	PK	Horizontal
6	13451.10	43.47	5.70	49.17	74.00	24.83	PK	Horizontal

Note:

1. Level = Reading + Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date: 2022-11-04 **Tested By:** James Gan
EUT: BLUETOOTH HEADSET **Model Number:** TOUR PRO 2
Test Mode: Tx mode **Power Supply:** Battery
Condition: Temp:22.2°C;Humi:56.7%;Press:100.3kPa **Test Site:** DDT 3# Chamber
File Path: d:\ts\2022 report data\Q22092806-2E TOUR PRO2\FCC ABOVE 1G\26
Memo: BLE 2M 2480



Suspected Data List								
NO.	Freq. [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	3138.55	49.41	-8.13	41.28	74.00	32.72	PK	Vertical
2	4166.97	48.19	-7.05	41.14	74.00	32.86	PK	Vertical
3	4935.69	46.32	-4.98	41.34	74.00	32.66	PK	Vertical
4	7592.71	45.94	-0.74	45.20	74.00	28.80	PK	Vertical
5	9837.98	44.90	2.21	47.11	74.00	26.89	PK	Vertical
6	14732.75	42.48	5.99	48.47	74.00	25.53	PK	Vertical

Note:
 1. Level = Reading + Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

9. RF Conducted Spurious Emissions

9.1. Block diagram of test setup

Same as section 4.1

9.2. Limits

In any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

9.3. Test procedure

(1) Connect EUT's antenna output to spectrum analyzer by RF cable.

(2) Establish a reference level by using the following procedure:

Center frequency	Test frequency
RBW:	100 kHz
VBW:	300 kHz
Span	Wide enough to capture the peak level of the in-band emission
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

(3) Allow the trace to stabilize, use the peak marker function to determine the maximum peak power level to establish the reference level.

(4) Set the spectrum analyzer as follows:

RBW:	100 kHz
VBW:	300 kHz
Span	Encompass frequency range to be measured
Number of measurement points	$\geq \text{span}/\text{RBW}$
Detector Mode:	Peak
Sweep time:	auto
Trace mode	Max hold

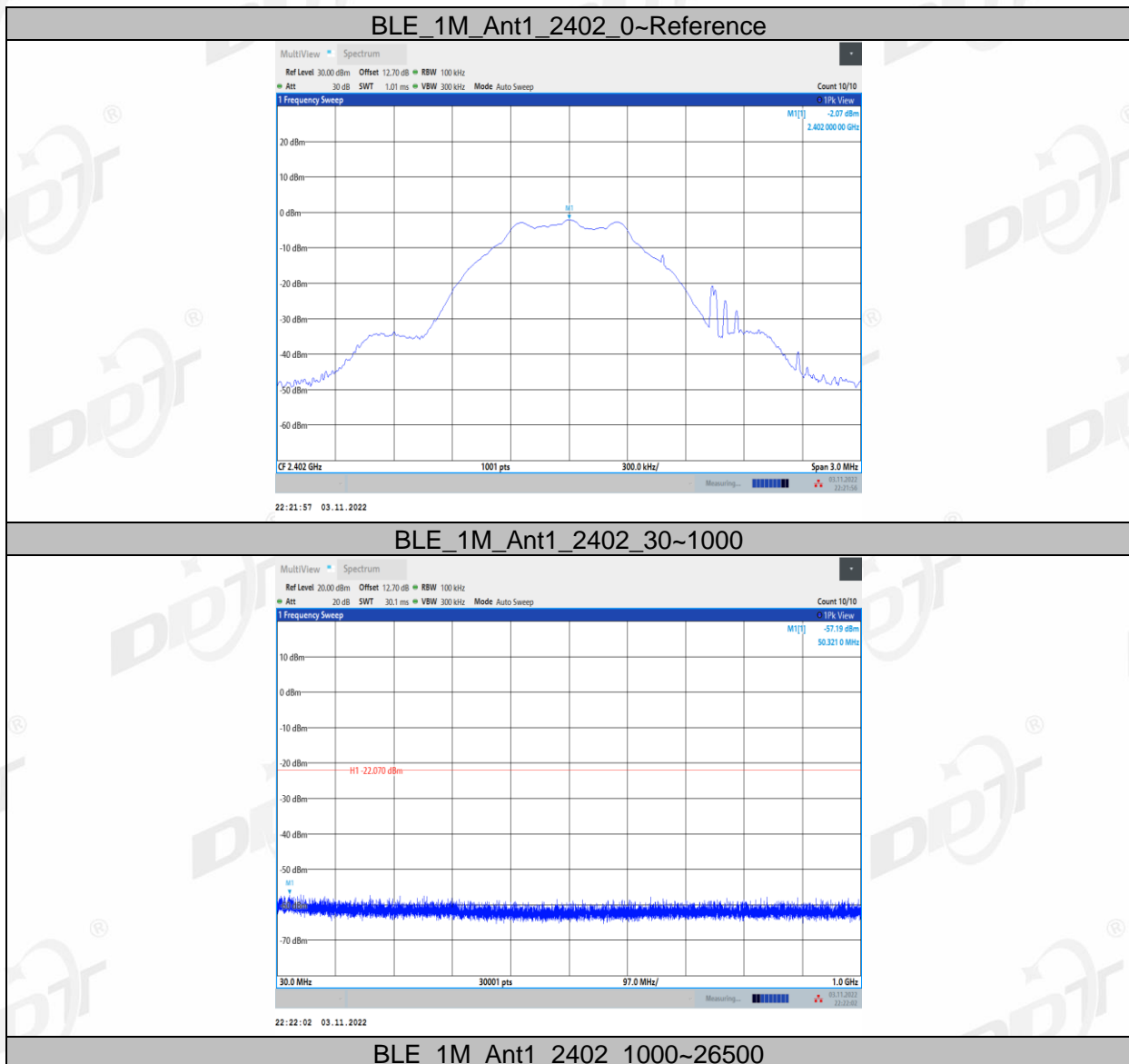
(5) Allow the trace to stabilize, use the peak marker function to determine the maximum amplitude of all unwanted emissions outside of the authorized frequency band

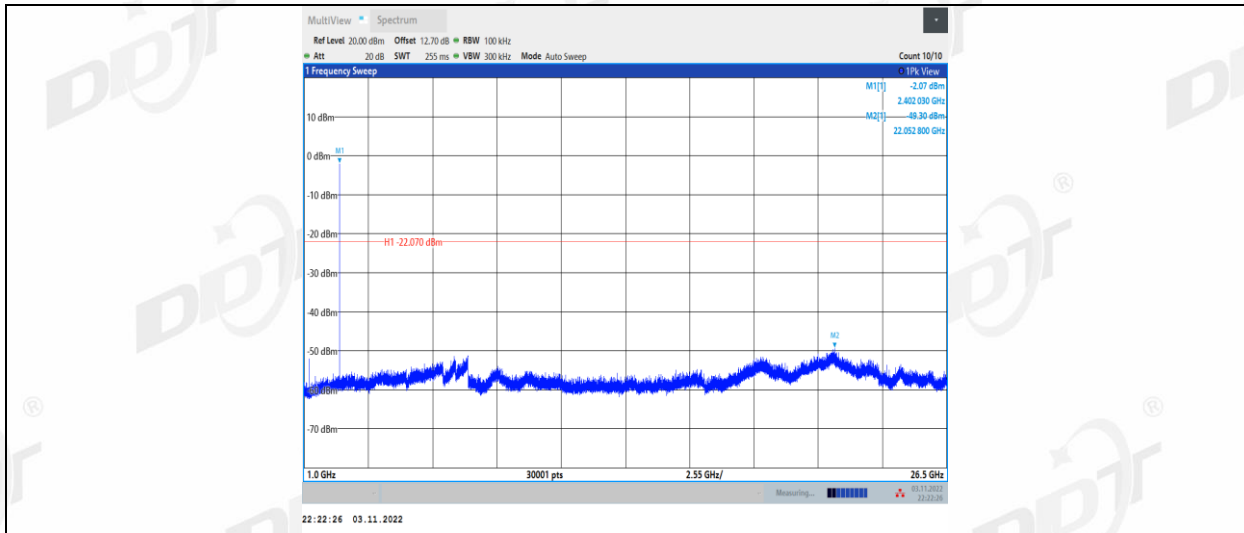
9.4. Test result

Mode	Freq. (MHz)	Verdict
BLE 1M	2402	Pass
	2440	Pass
	2480	Pass
BLE 2M	2402	Pass
	2440	Pass
	2480	Pass

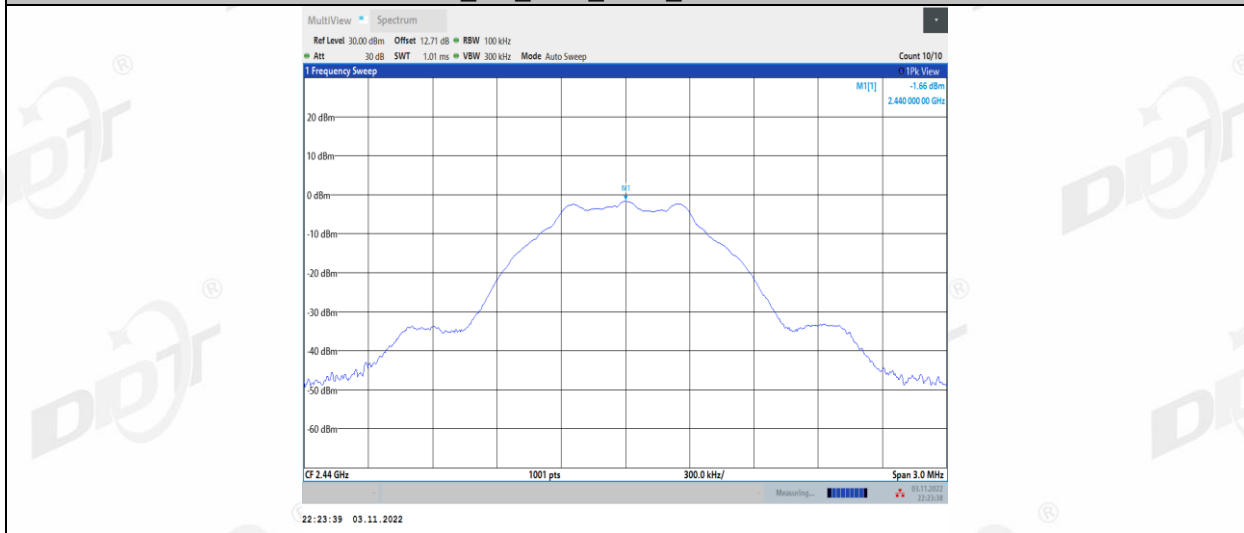
9.5. Original test data

Left side:

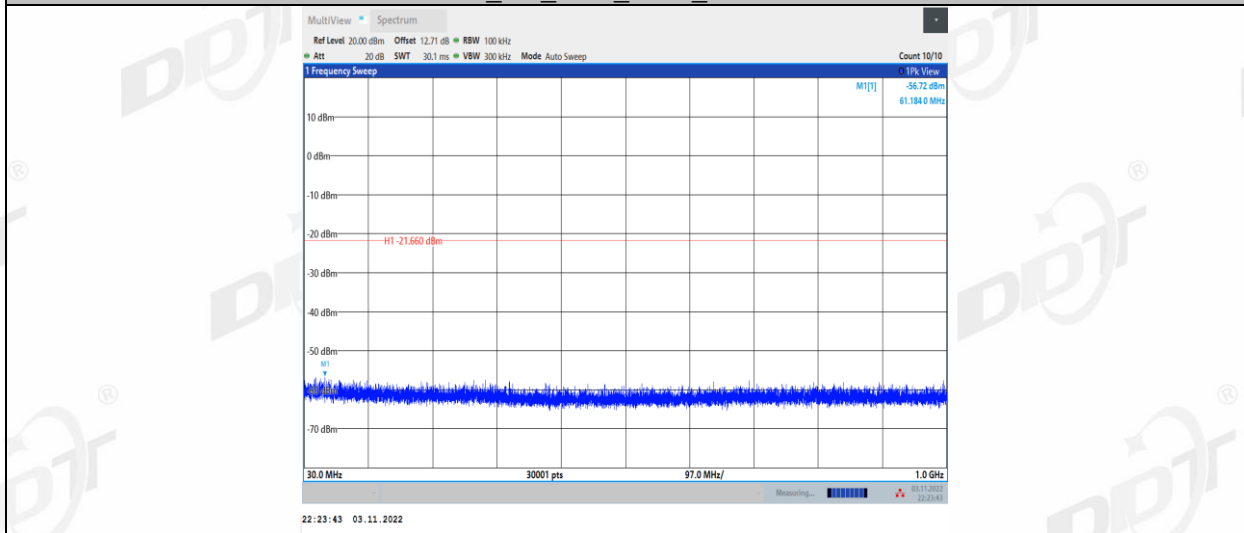




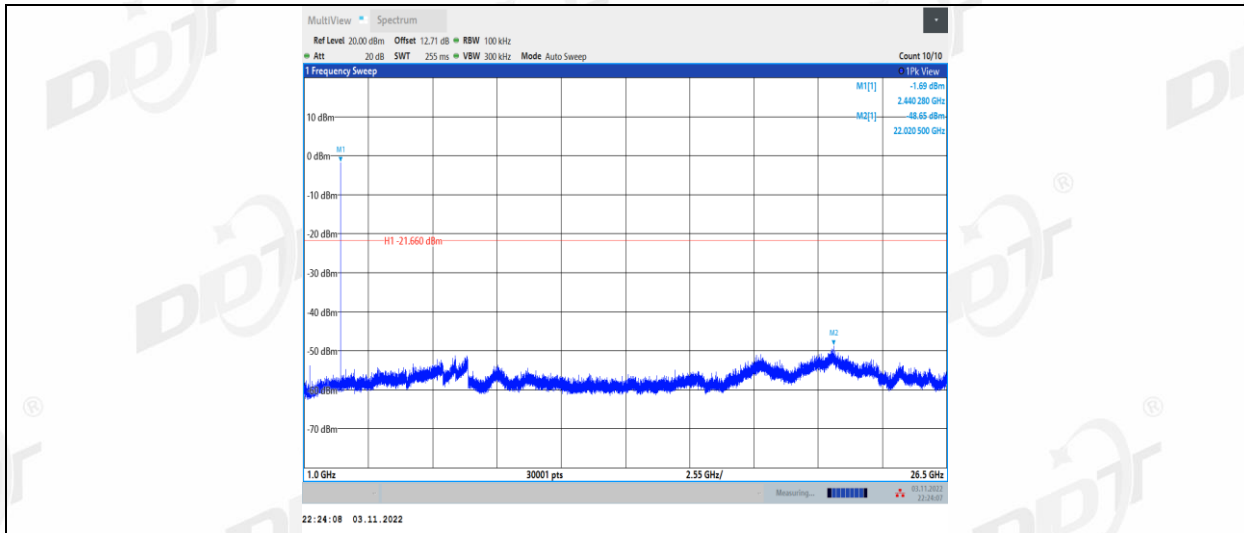
BLE_1M_Ant1_2440_0-Reference



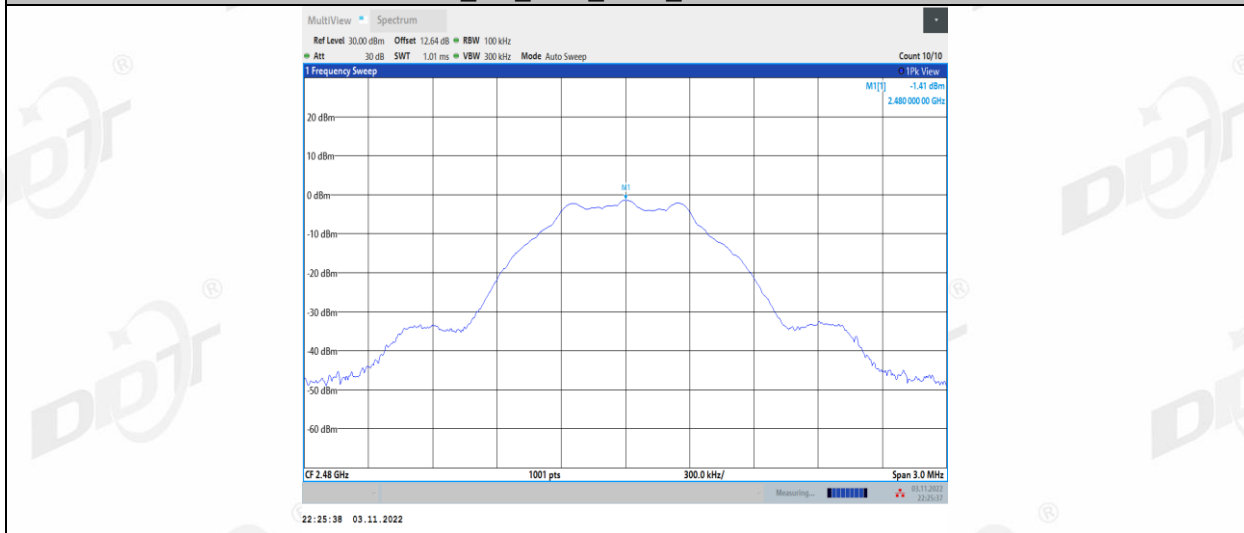
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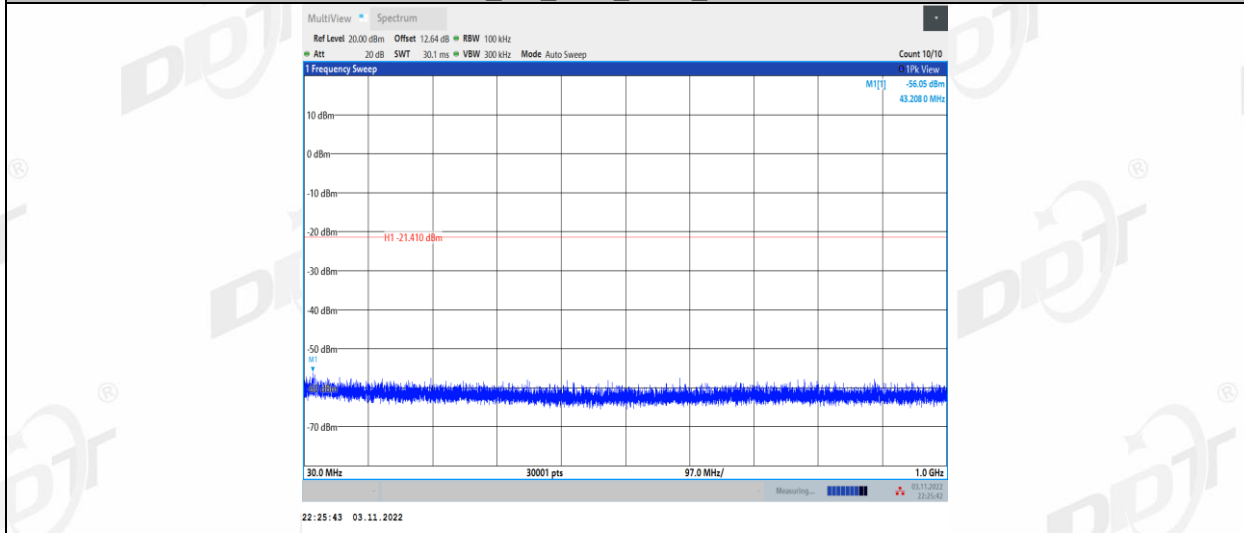
BLE_1M_Ant1_2440_1000-26500



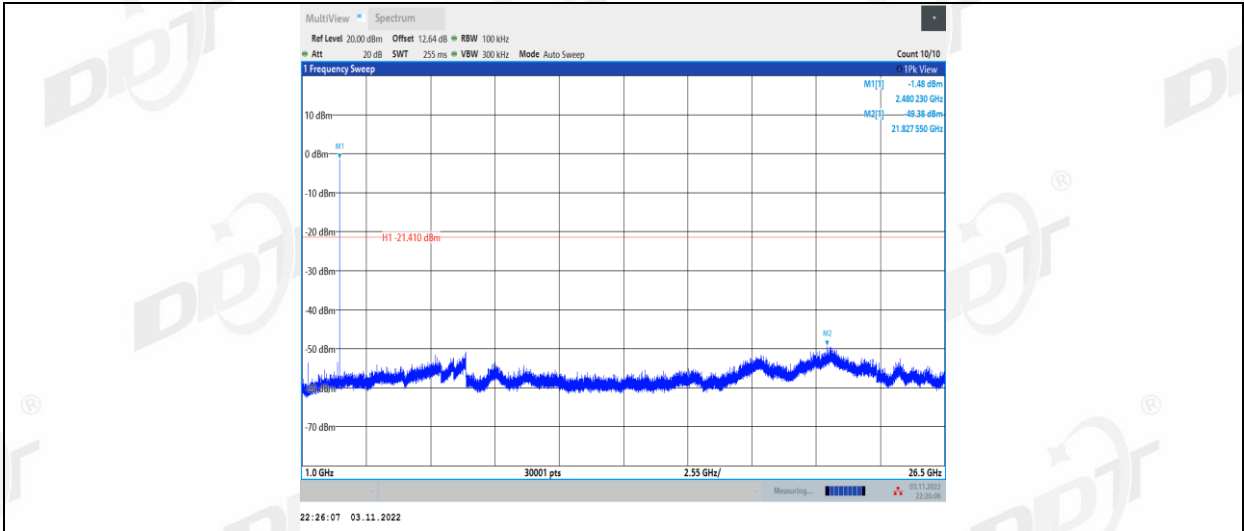
BLE_1M_Ant1_2480_0-Reference



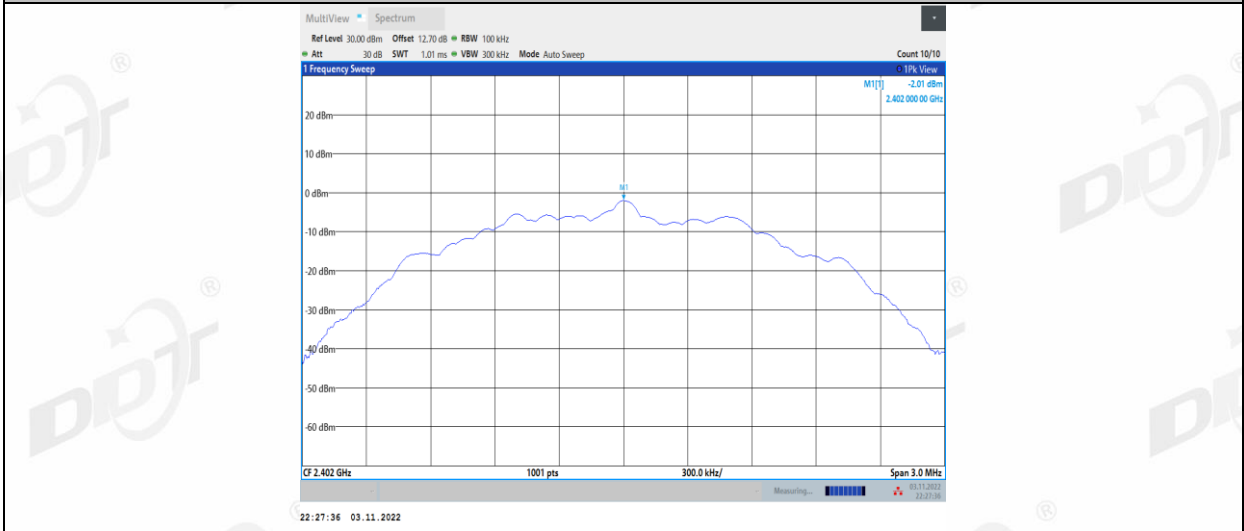
BLE_1M_Ant1_2480_30-1000



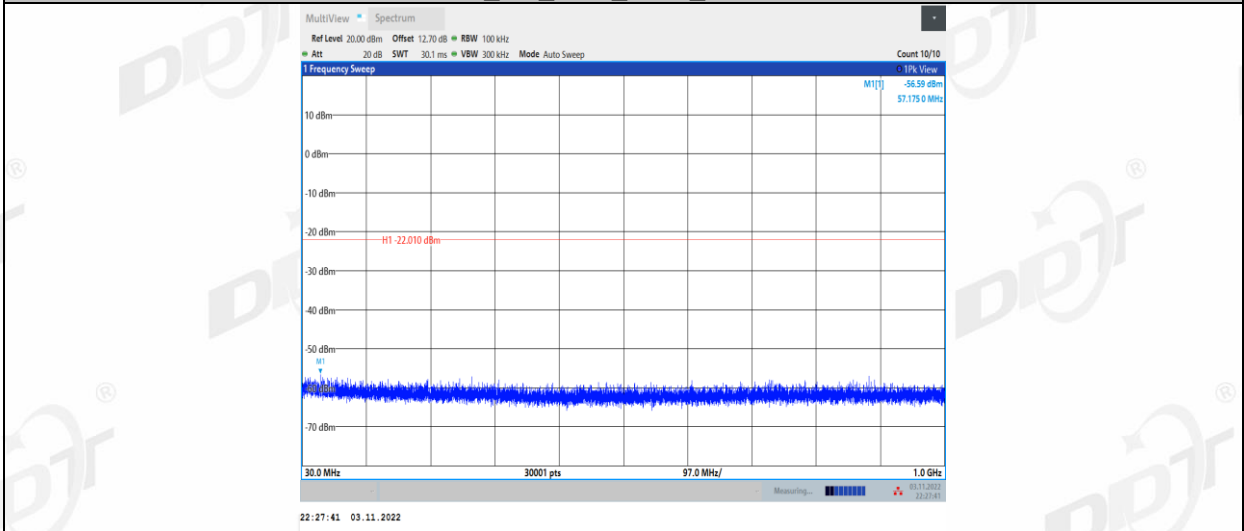
BLE_1M_Ant1_2480_1000-26500



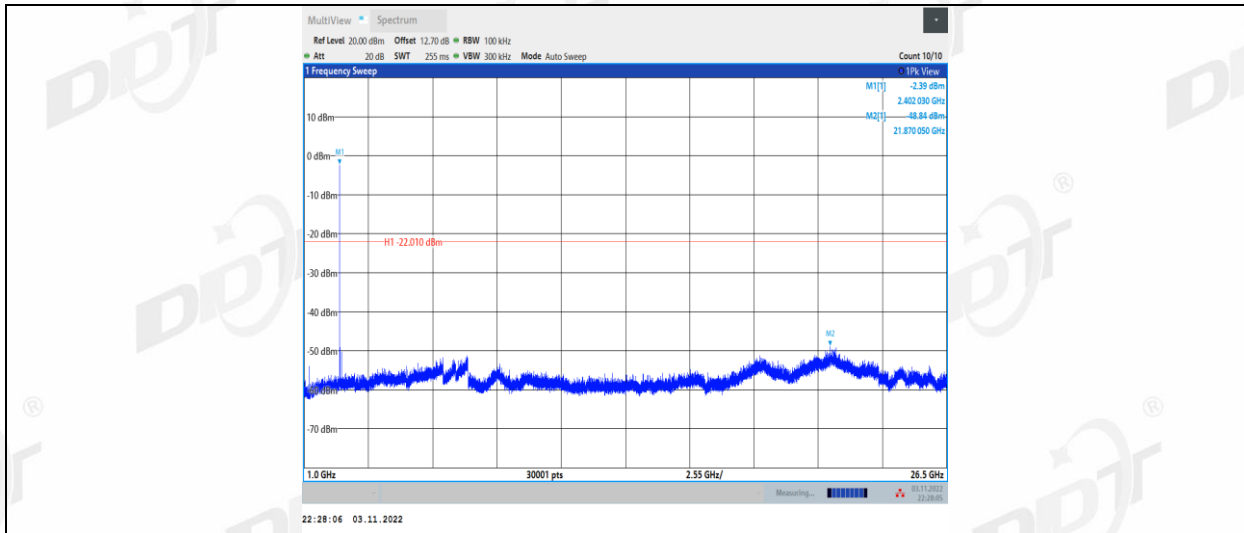
BLE_2M_Ant1_2402_0~Reference



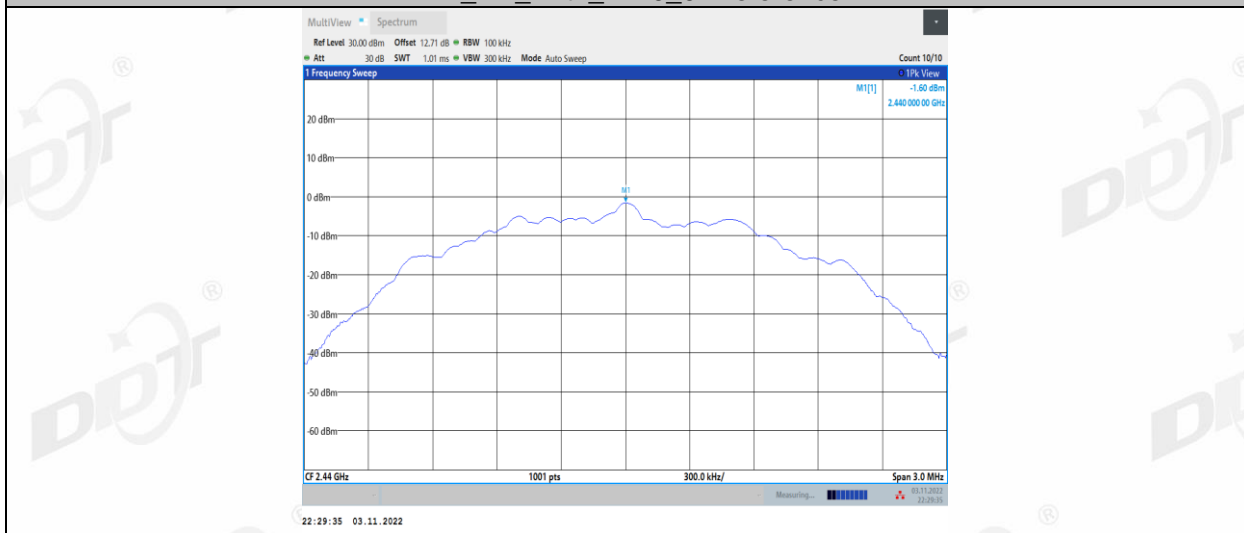
BLE_2M_Ant1_2402_30~1000



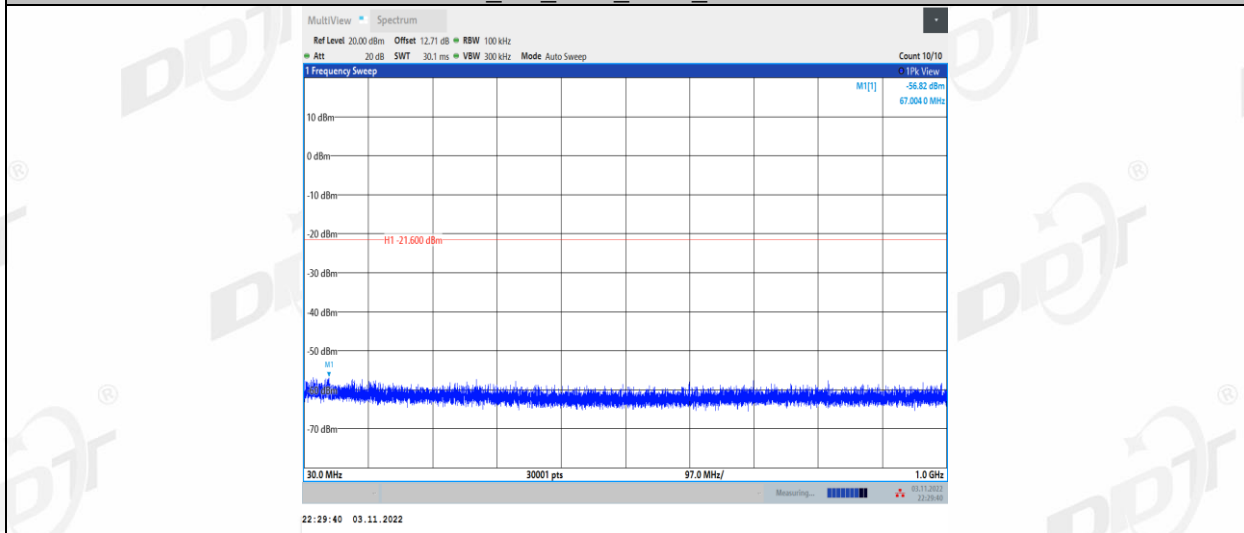
BLE_2M_Ant1_2402_1000~26500



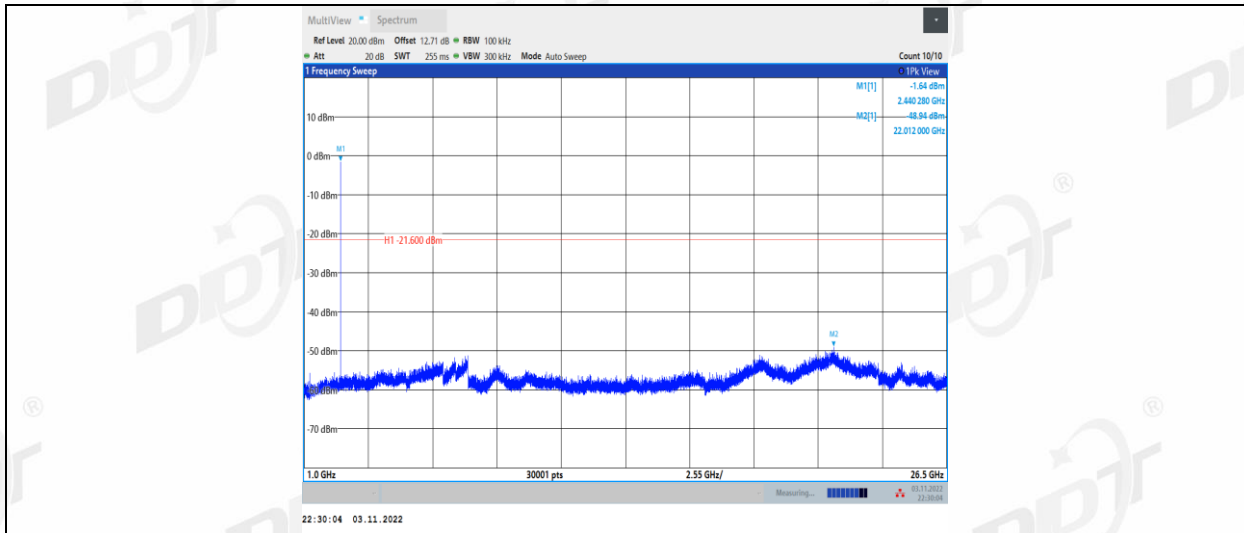
BLE_2M_Ant1_2440_0-Reference



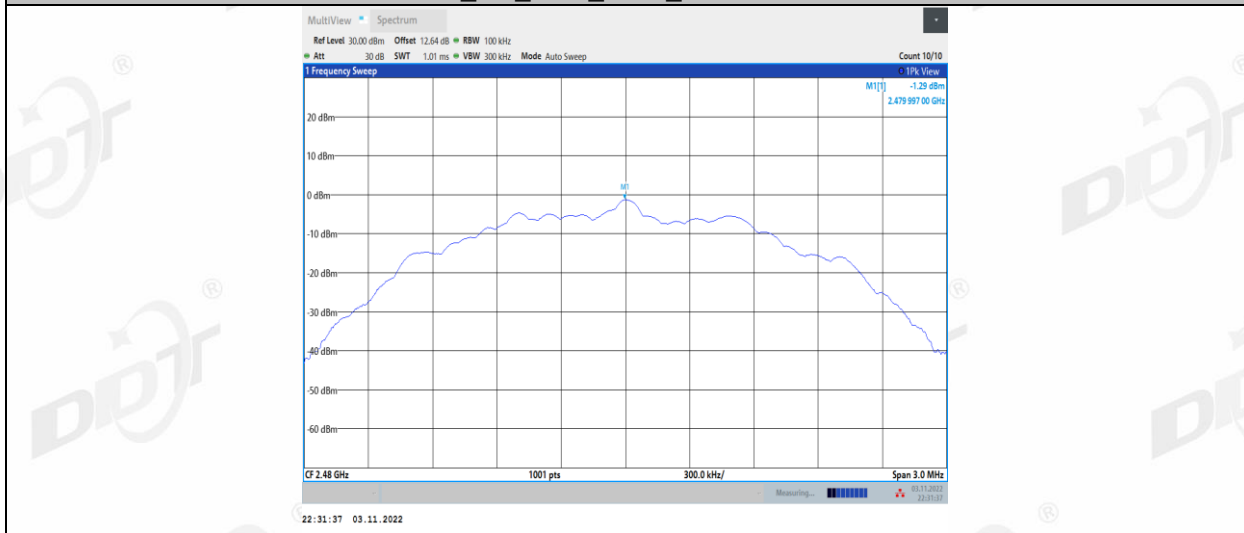
BLE_2M_Ant1_2440_30-1000



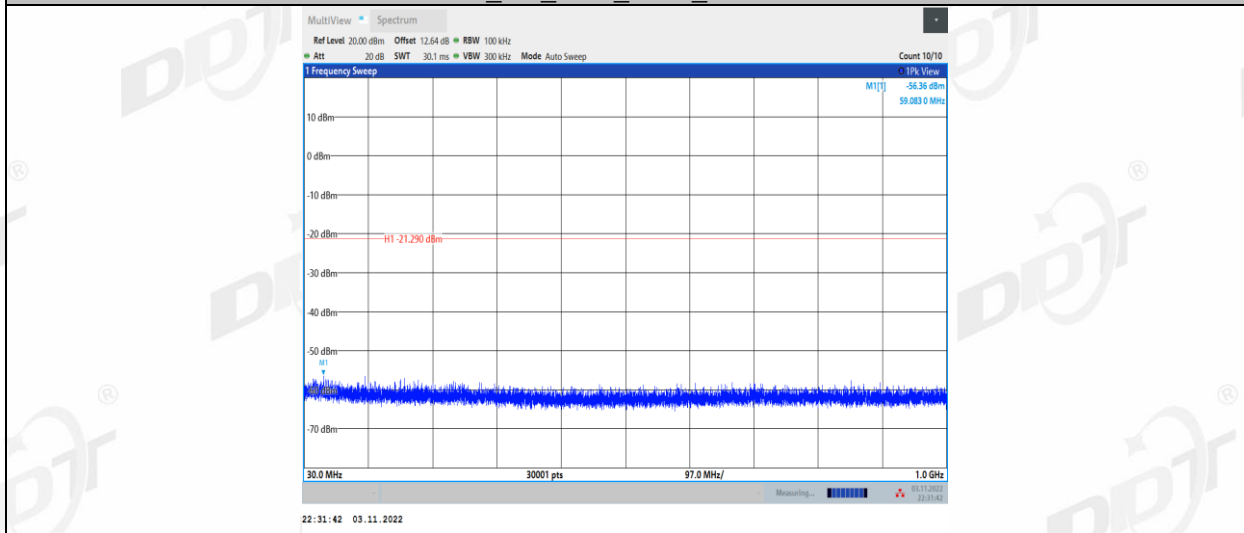
BLE_2M_Ant1_2440_1000-26500



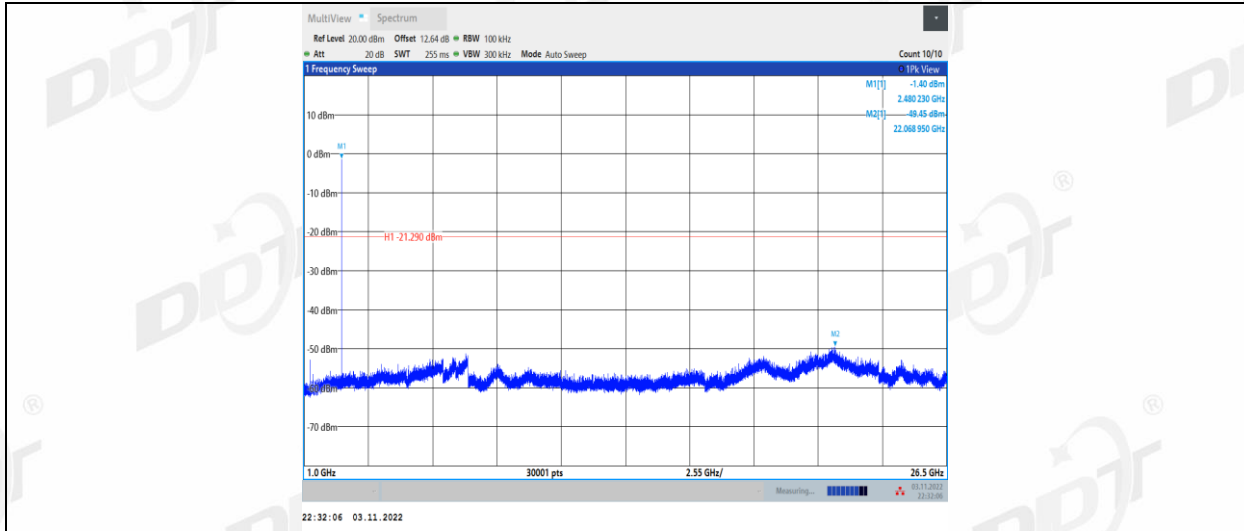
BLE_2M_Ant1_2480_0~Reference



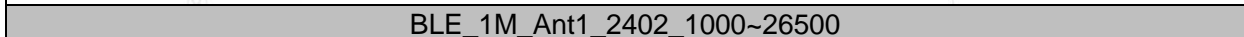
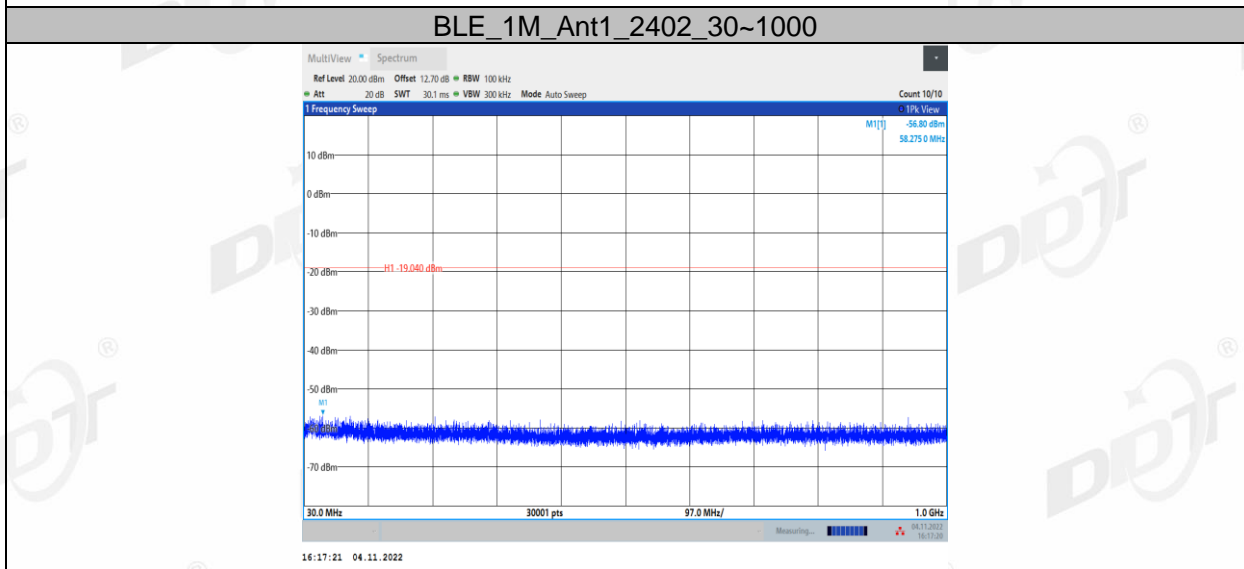
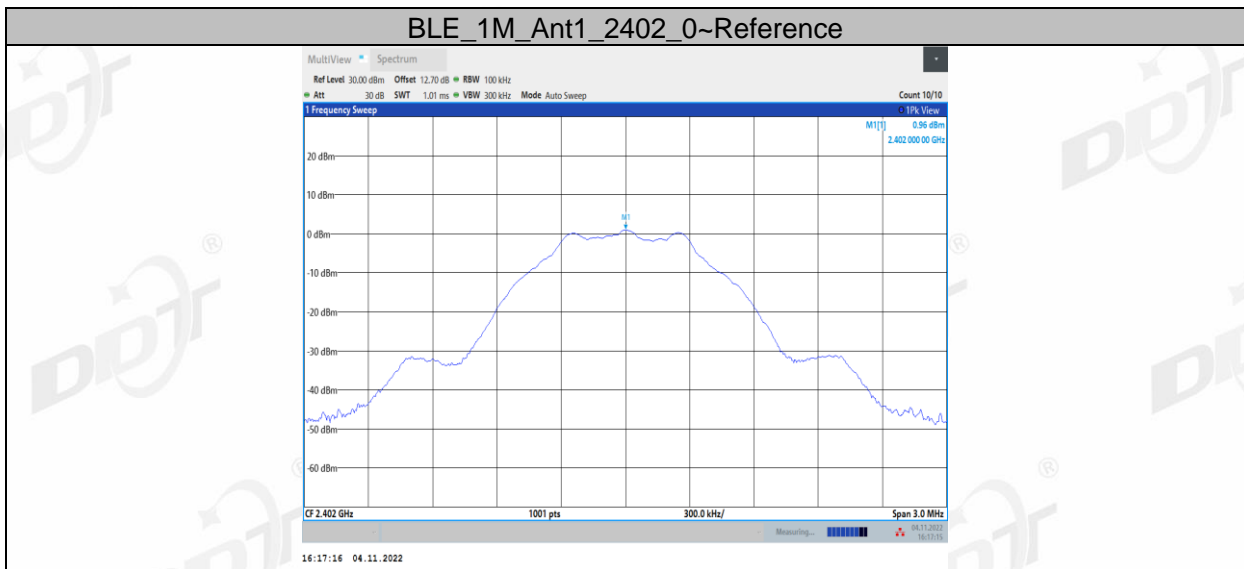
BLE_2M_Ant1_2480_30~1000

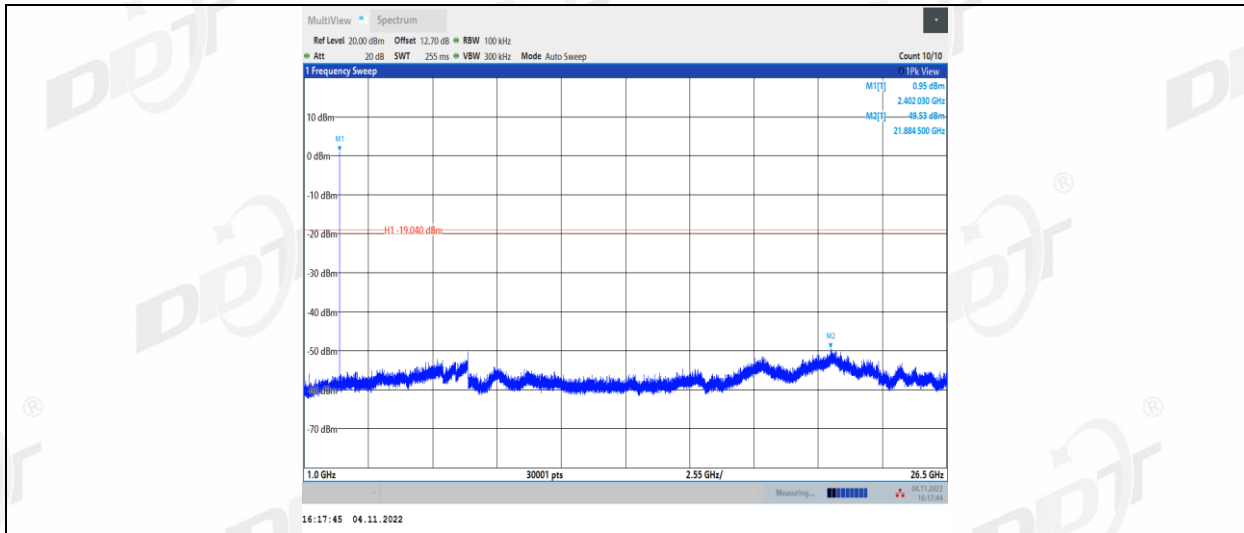


BLE_2M_Ant1_2480_1000~26500

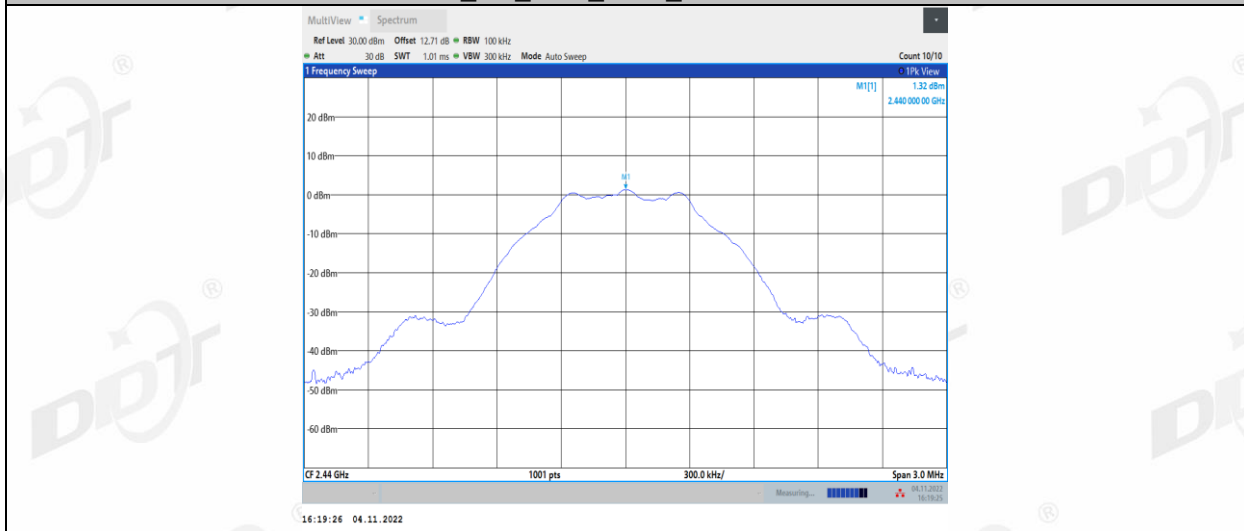


Right side:

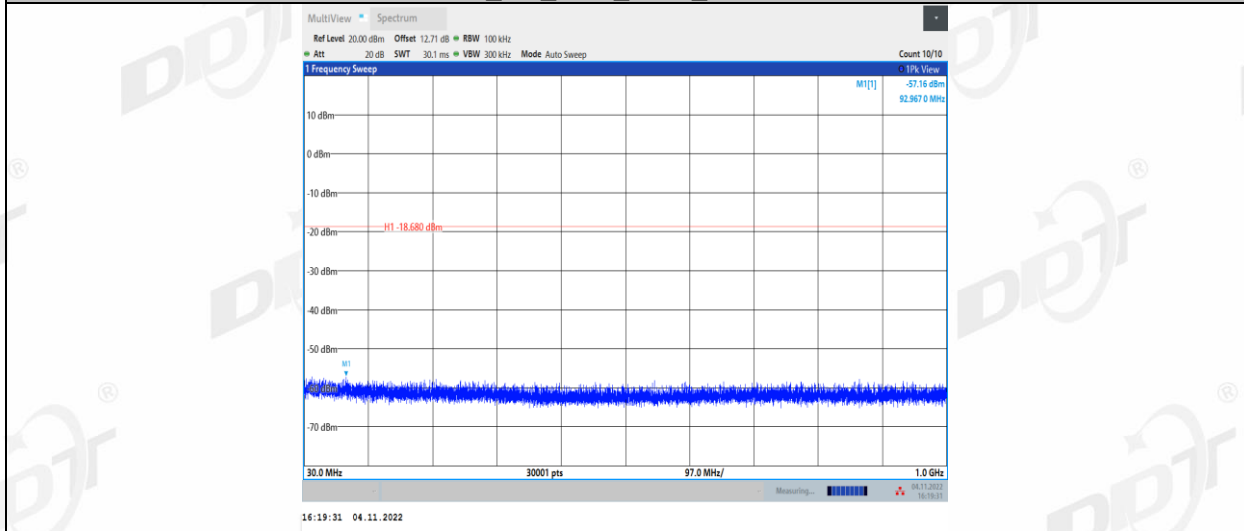




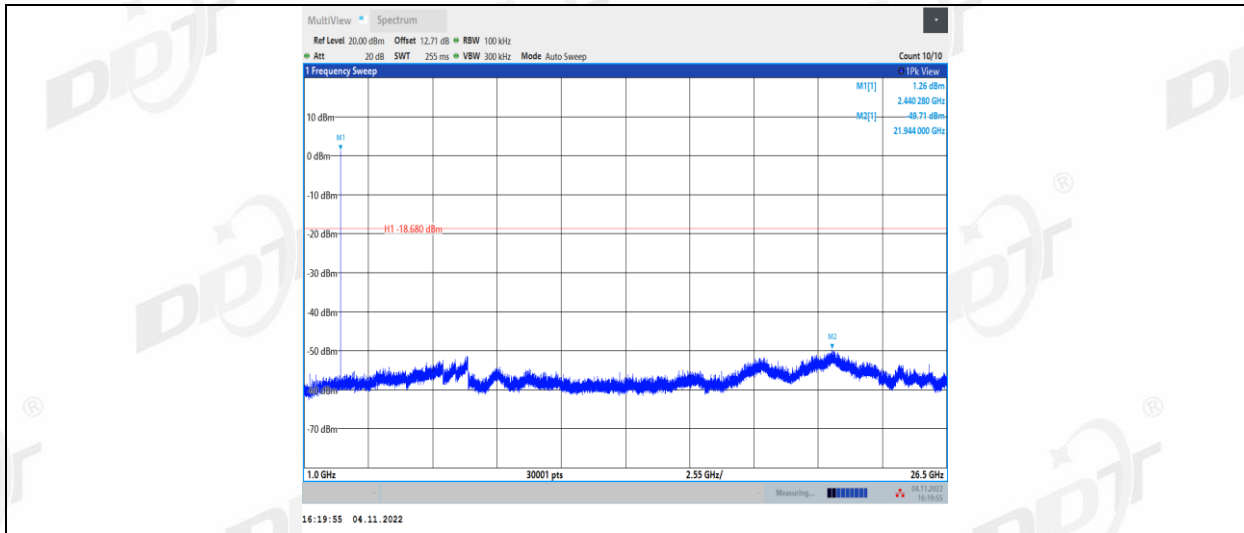
BLE_1M_Ant1_2440_0~Reference



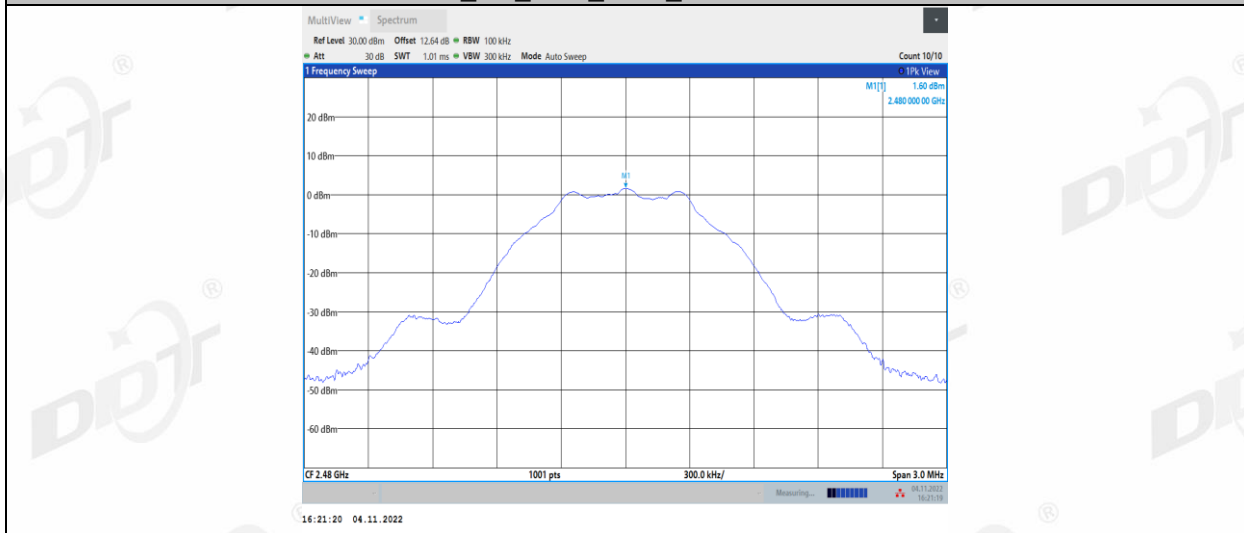
BLE_1M_Ant1_2440_30~1000



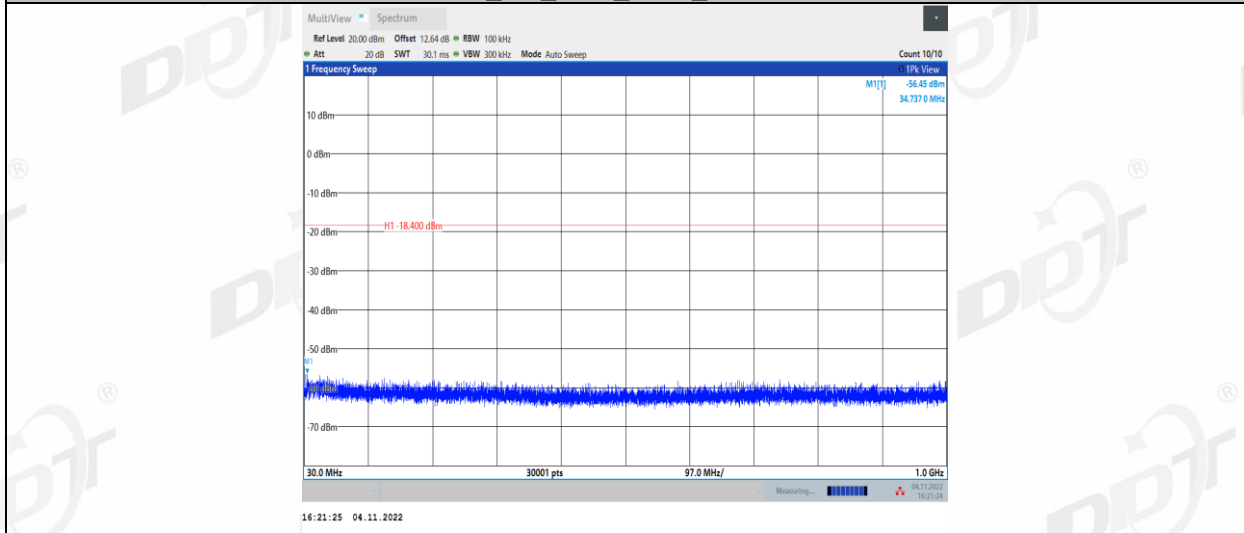
BLE_1M_Ant1_2440_1000~26500



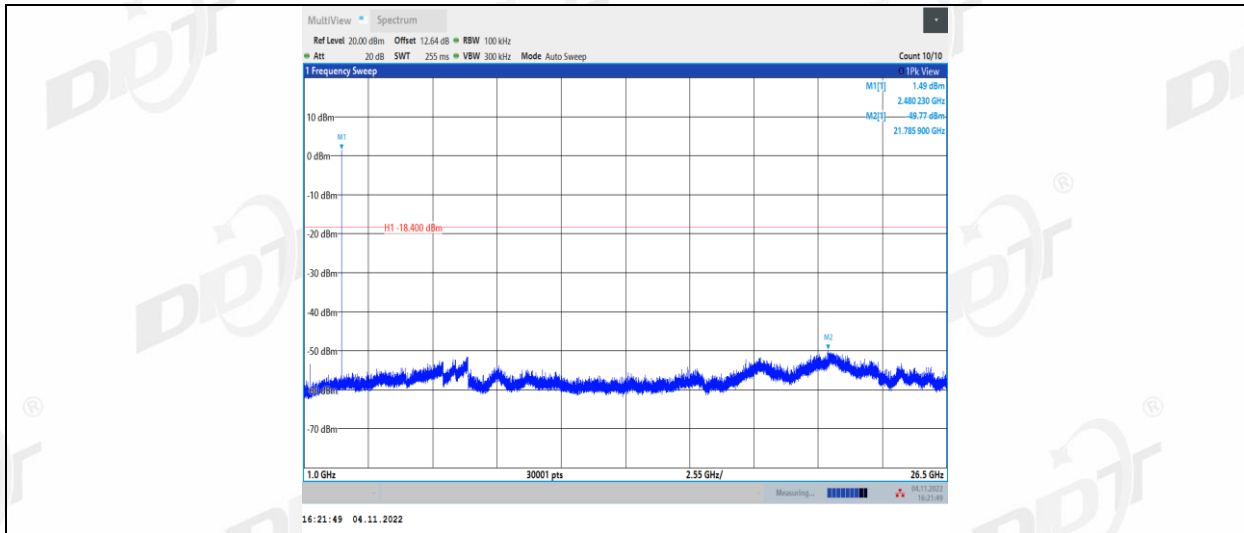
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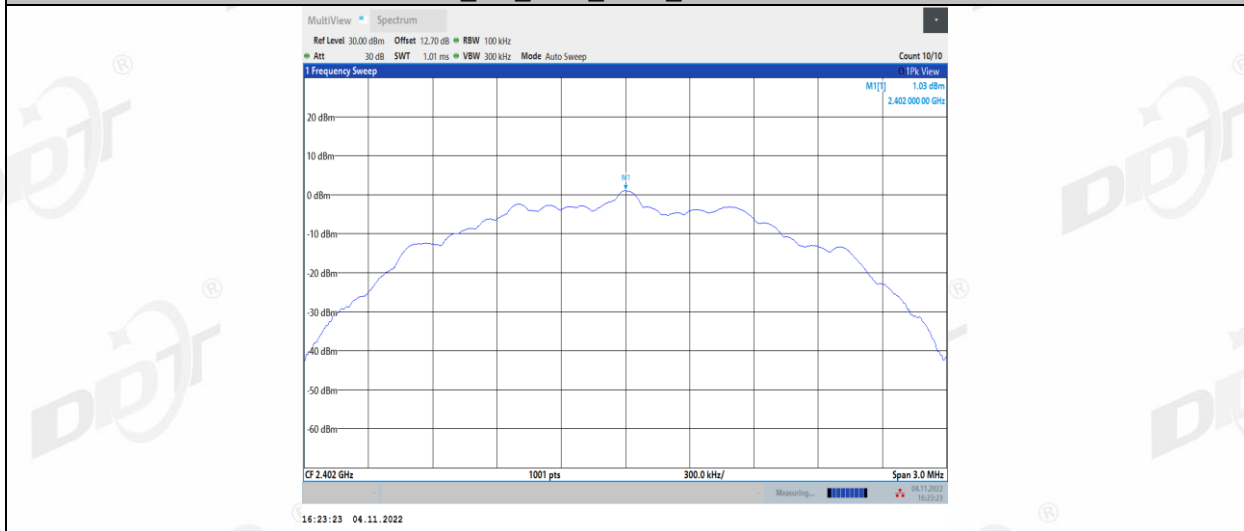
BLE_1M_Ant1_2480_30~1000



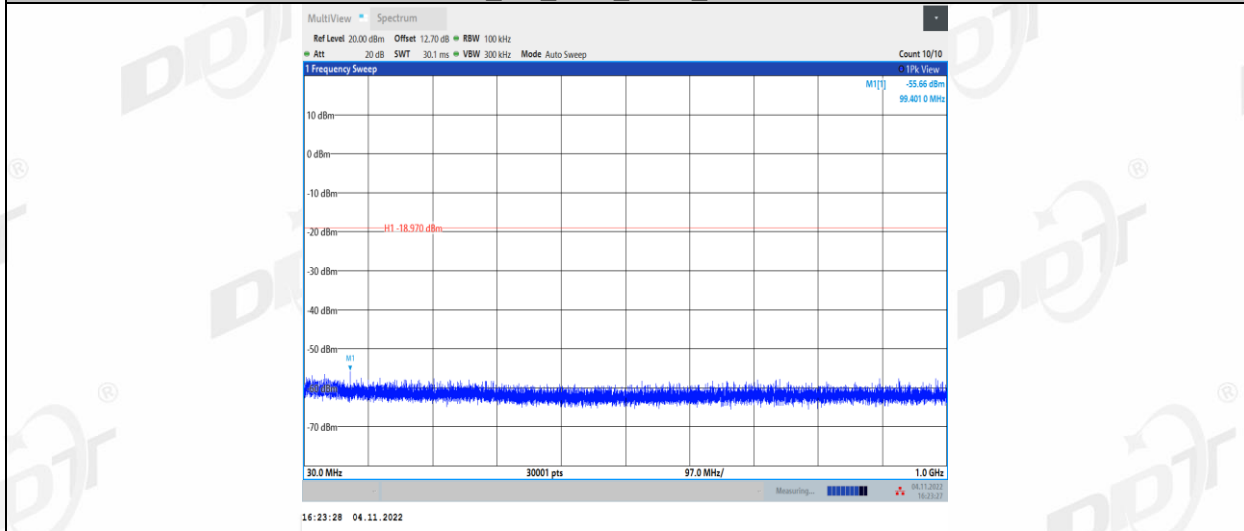
BLE_1M_Ant1_2480_1000~26500



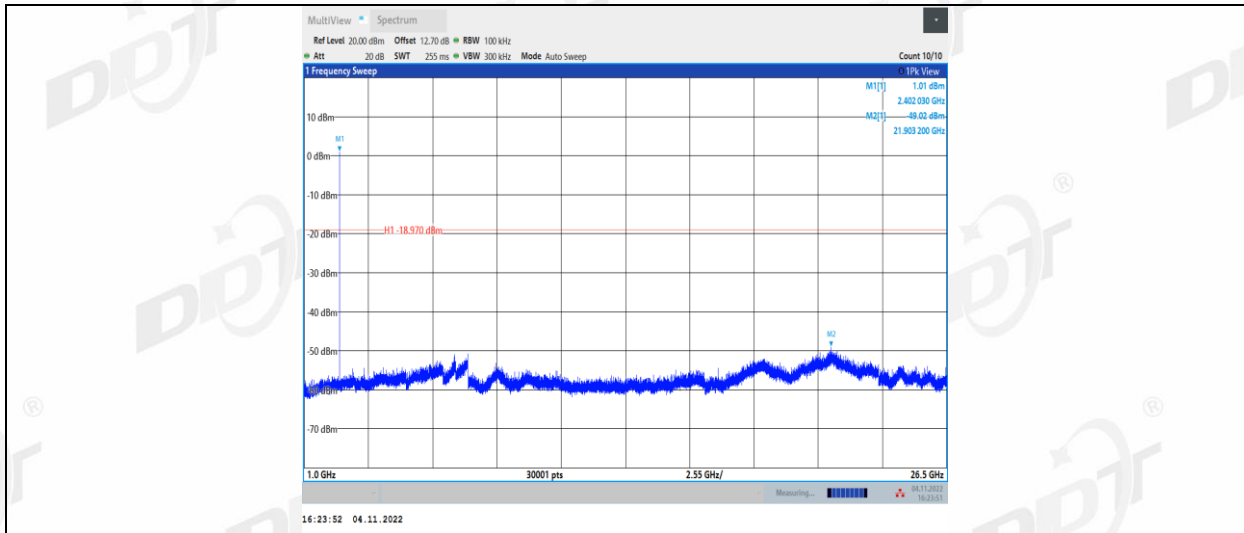
BLE_2M_Ant1_2402_0~Reference



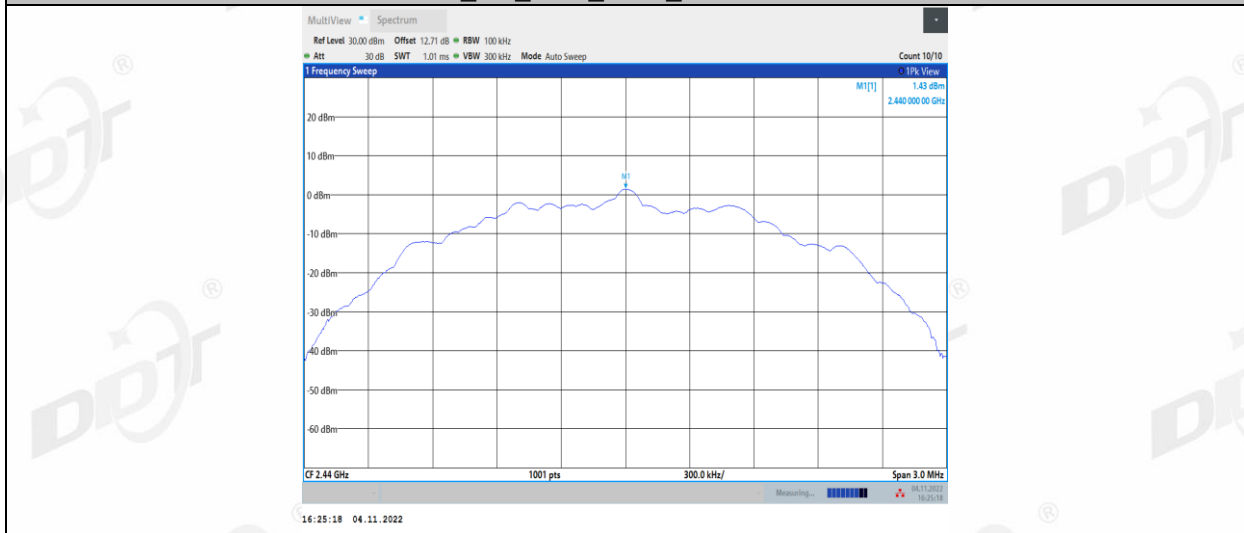
BLE_2M_Ant1_2402_30~1000



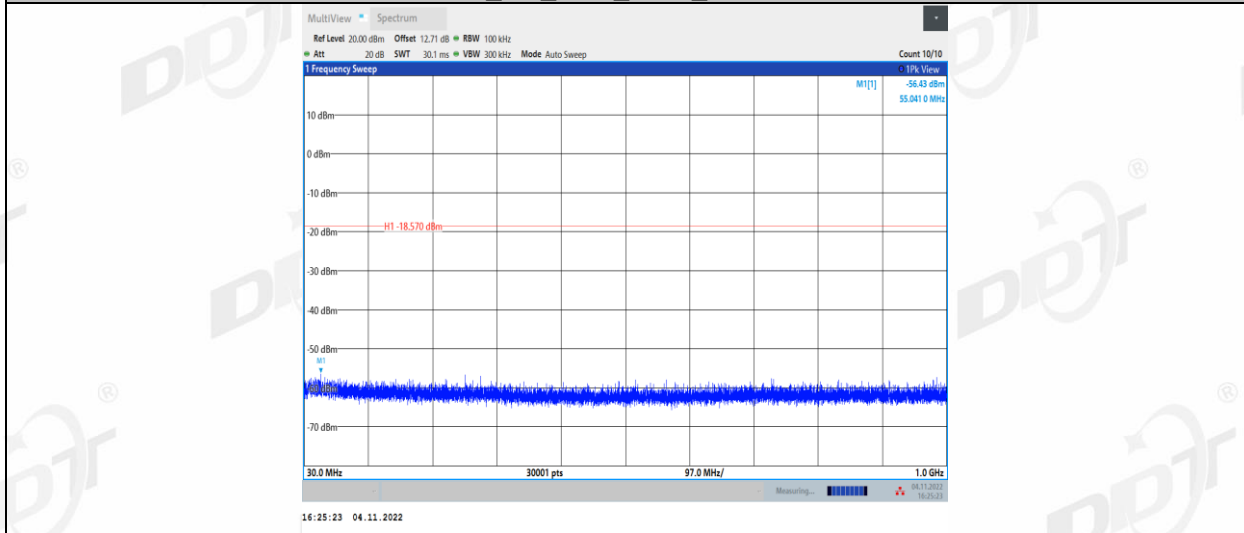
BLE_2M_Ant1_2402_1000~26500



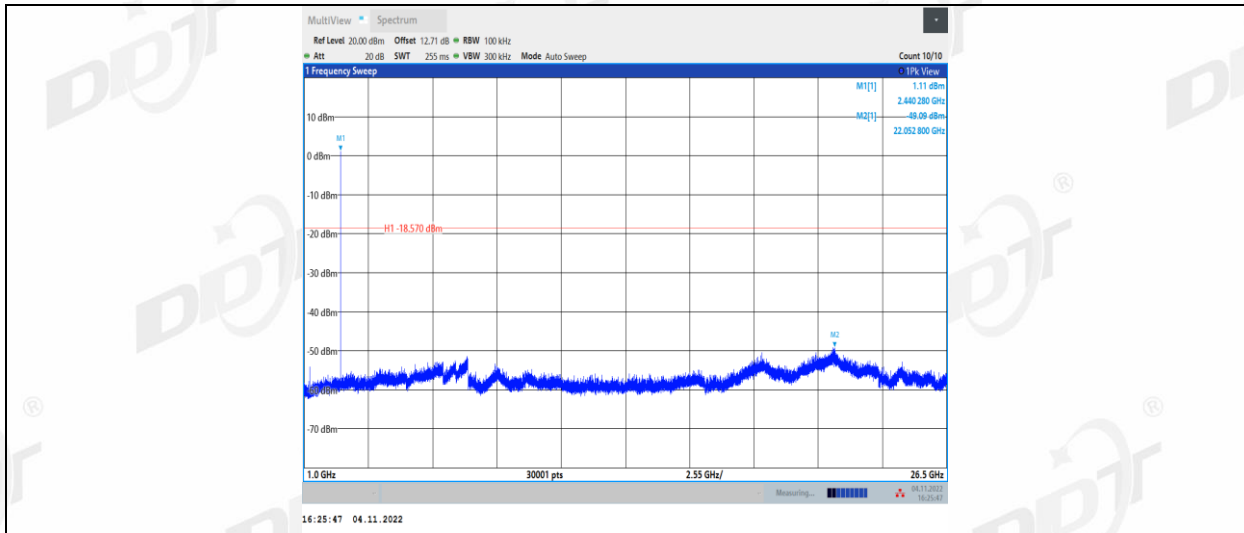
BLE_2M_Ant1_2440_0~Reference



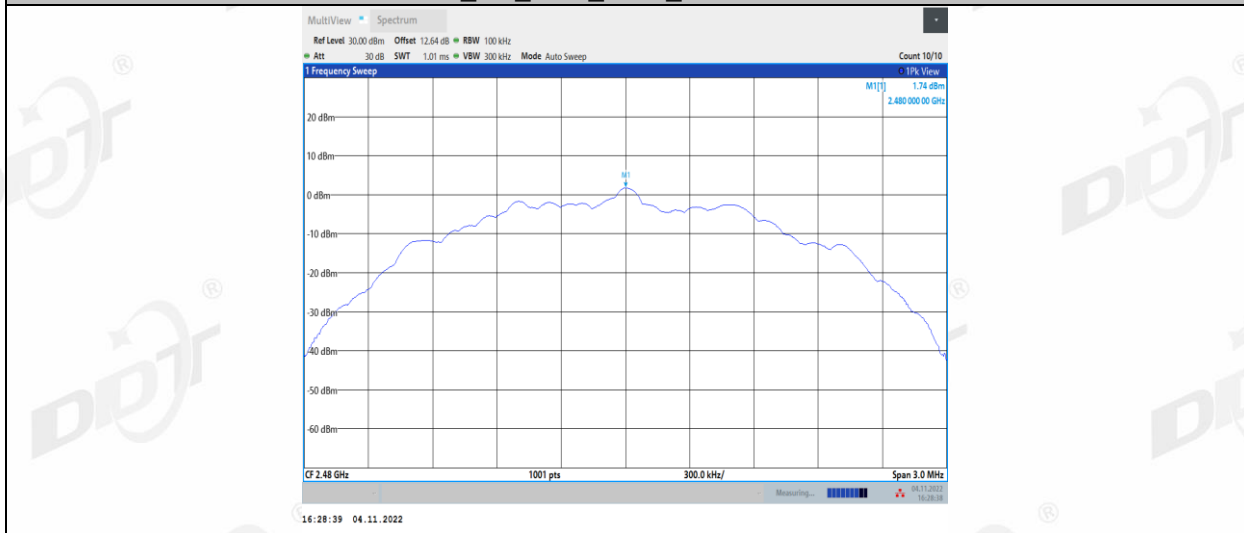
BLE_2M_Ant1_2440_30~1000



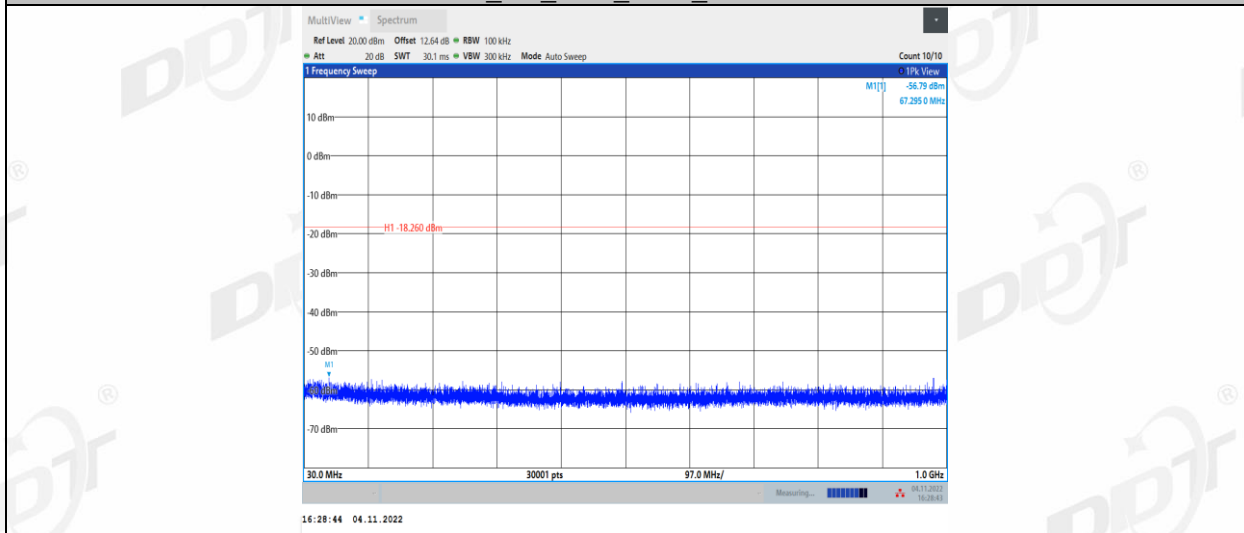
BLE_2M_Ant1_2440_1000~26500



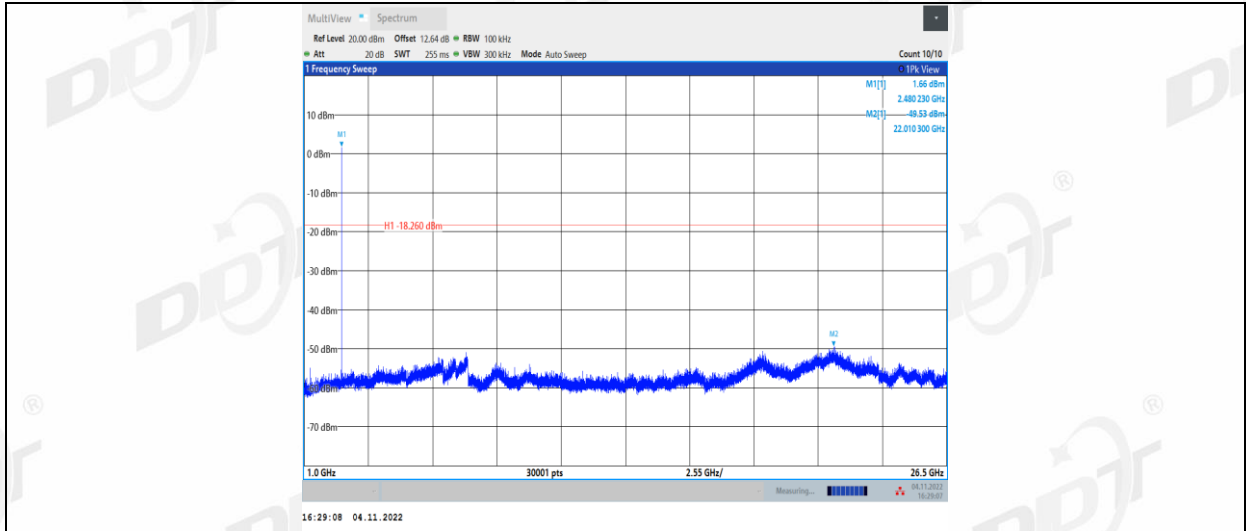
BLE_2M_Ant1_2480_0~Reference



BLE_2M_Ant1_2480_30~1000

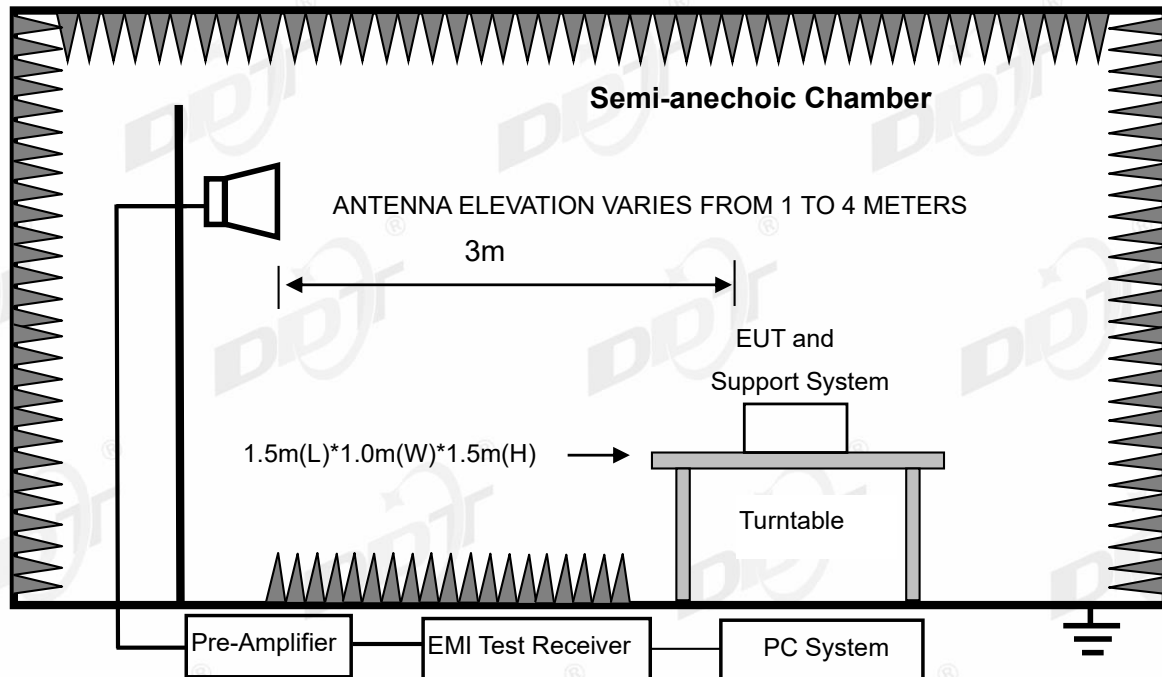


BLE_2M_Ant1_2480_1000~26500



10. Emissions in Restricted Frequency Bands

10.1. Block diagram of test setup



10.2. Limit

All restriction band should comply with 15.209 and RSS-Gen section 8.9 limits, other emission should be at least 20 dB below the fundamental.

10.3. Test procedure

Same with clause 8.3 except change investigated frequency range from 2310 MHz to 2410 MHz and 2475 MHz to 2500 MHz.

Remark: All restriction band have been tested, and only the worst case is shown in report.

10.4. Test result

Pass. (See below detailed test result)

The final test was only performed with EUT working in Right side Tx mode.